

Mountain Valley Pipeline, LLC

v.

Easements to Construct, etc., et al.

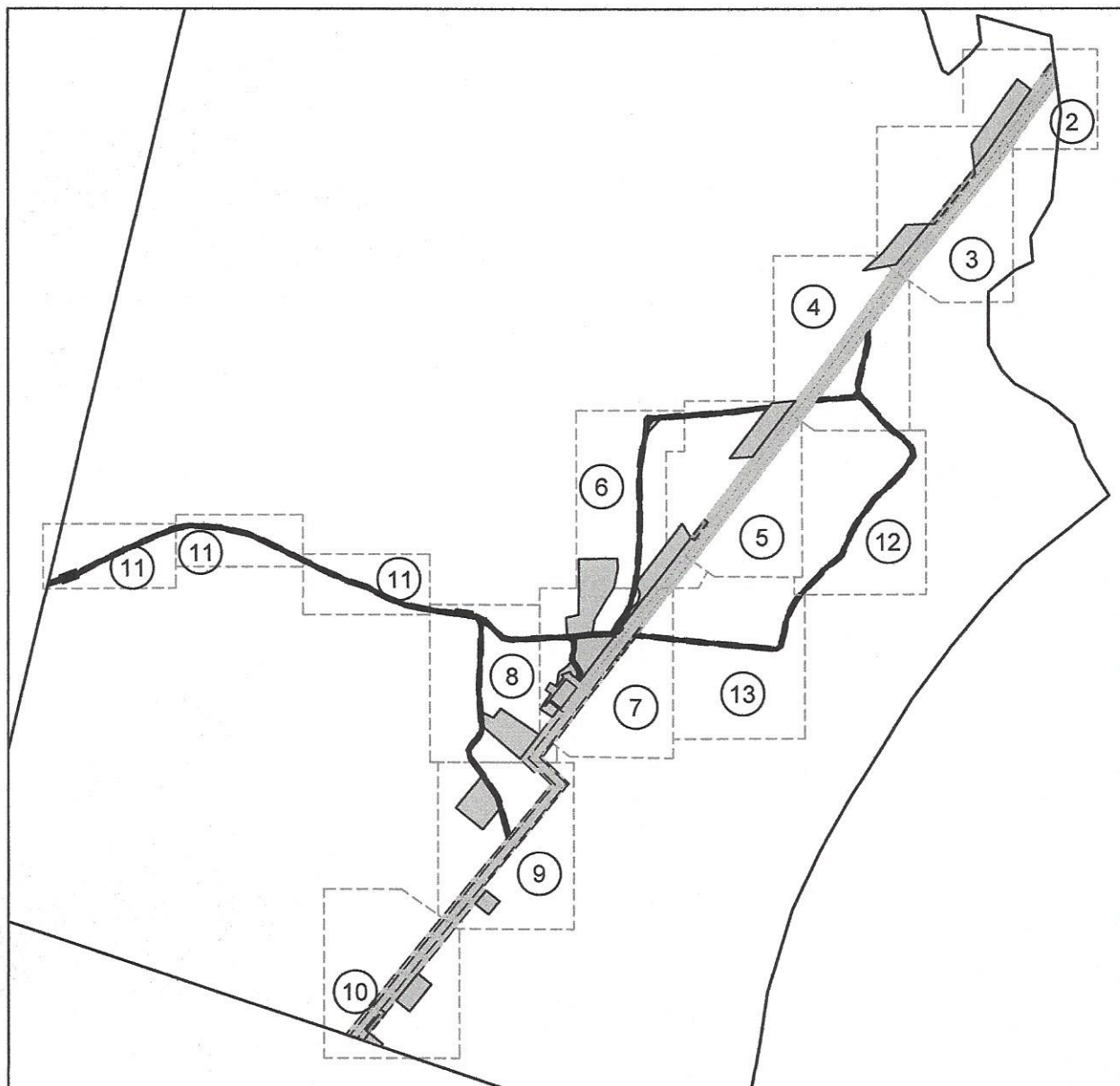
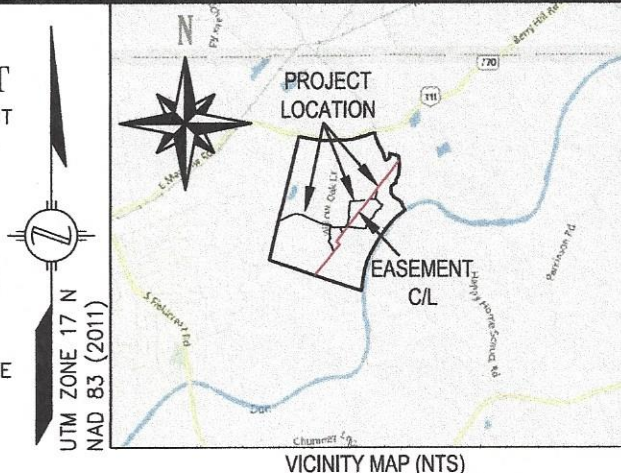
Exhibit 45 to Complaint

Maps of MVP Parcel Nos. NC-RO-006.000 and NC-RO-006.001 AR

EXHIBIT A
INDEX SHEET

NOTES

1. ALL DISTANCES SHOWN HEREON ARE HORIZONTAL GRID DISTANCES, A PROJECT SCALE FACTOR (PSF) OF 0.99979557 WAS ESTABLISHED FOR THIS PROJECT. TO OBTAIN GROUND DISTANCE, DIVIDE THE DISTANCE SHOWN BY THE PSF.
2. AREAS DETERMINED BY COORDINATE METHOD.
3. AREAS SHOWN ARE SUBJECT TO EASEMENT OF RECORD.
4. RECORD REFERENCES: DEED BOOK 1077, PAGE 1830
5. PARCEL ID: 164555
6. PROPERTY LINES SHOWN ARE BASED ON EXISTING DEEDS, PLATS AND VISIBLE MONUMENTATION DISCOVERED ALONG PROJECT AREA.
7. THIS SURVEY IS REFERENCED TO UTM ZONE 17 N NAD 83 (2011).
8. ALL CORNERS ARE AS NOTED.
9. THIS PLAT IS FOR EASEMENT ACQUISITION PURPOSES ONLY AND IS NOT TO BE CONSIDERED A BOUNDARY SURVEY OF THE PARENT TRACT.
10. TEMPORARY EASEMENT TO BE ACQUIRED.



SEE SHEETS 2-14 OF 17 FOR GRAPHICS AND LABELS.
SEE SHEETS 15-17 OF 17 FOR LINE TABLES.

LAND OWNER INITIALS: _____
DATE: _____

EASEMENT SURVEY
FOR MVP SOUTHGATE
TOWNSHIP OF LEASVILLE
ROCKINGHAM COUNTY, NORTH CAROLINA



PIPELINE EASEMENT IN PROPERTY OF
WILLOW OAKS PLANTATION, LLC

NC-RO-006.000
DEED BOOK 1077, PAGE 1830

NC-RO-006.000
Drawn By: JCL Chk'd By: DD App'd By: TWK
Drawn Date: 10/3/2018
Scale: N.T.S.
Sheet: 1 OF 17
MVP Proj. No.

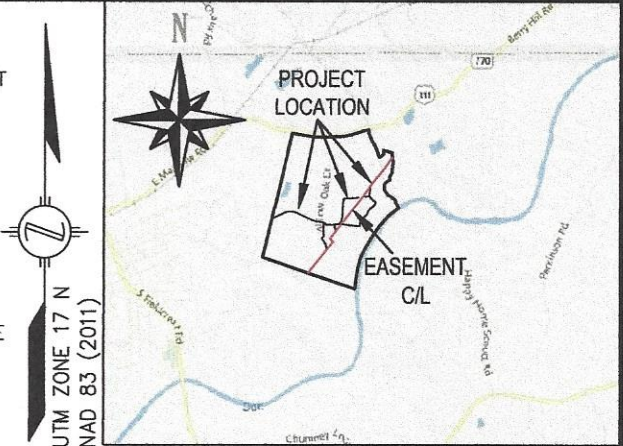
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No.	Date	Rev By	Description	Checked
1	5/6/2020		GENERAL REVISIONS	
2	6/16/2020	DKD	ACCESS ROAD NAME	TWK
3	9/5/2020	MSF	REVISED EASEMENT AND AR'S	TWK

SEE SHEET 2 FOR THE LAND SURVEYOR'S CERTIFICATION.

NOTES

1. ALL DISTANCES SHOWN HEREON ARE HORIZONTAL GRID DISTANCES, A PROJECT SCALE FACTOR (PSF) OF 0.99979557 WAS ESTABLISHED FOR THIS PROJECT. TO OBTAIN GROUND DISTANCE, DIVIDE THE DISTANCE SHOWN BY THE PSF.
2. AREAS DETERMINED BY COORDINATE METHOD.
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10. TEMPORARY EASEMENT TO BE ACQUIRED.

EXHIBIT A



NC-RO-006.000
WILLOW OAKS PLANTATION, LLC
DEED BOOK 1077, PAGE 1830
PARCEL ID. NO. 164555

**ADDITIONAL
TEMPORARY
WORKSPACE**
0.07± ACRES
2,867± SQ. FEET

**TEMPORARY
WORKSPACE**
3.24± ACRES
141,073± SQ. FEET

**ADDITIONAL
TEMPORARY
WORKSPACE**
1.16± ACRES
50,735± SQ. FEET

NGS MONUMENT
STA 071 0154 AZ MK
N:13,297,578.39
E:2,077,443.38
CSF:0.99979352

S35°24'47"W
620.10' GRID

S51°06'02"W
50,138.28' GRID

**POINT OF
BEGINNING**
N: 13,265,588.34
E: 2,038,064.02

NGS MONUMENT
STA 071 0154
N:13,297,073.01
E:2,077,084.05
CSF:0.99979281

PROPOSED EASEMENT
8.38± ACRES
364,836± SQ. FEET

NC-RO-005.000
N/F
CIRCLE BAR D RANCH, LLC, A
NORTH CAROLINA LIMITED
LIABILITY COMPANY
DEED BOOK 1302, PAGE 42-46

- LEGEND
- NGS MONUMENT
 - EIP EXISTING IRON PIPE OR PIN
 - OIPS IRON PIN SET
 - CP COMPUTED POINT
 - LINE NOT TO SCALE

- PERMANENT ACCESS ROAD
- TEMPORARY ACCESS ROAD
- PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (A.T.W.S.)
- POSSIBLE TEMPORARY WORKSPACE

	sq. ft.	acres
AREA OF PROPOSED EASEMENT:	364,836±	8.38 ACRES
AREA OF PROPOSED INTERCONNECT SITE:	12,000±	0.28 ACRES
AREA OF TEMPORARY WORKSPACE:	307,971±	7.07 ACRES
AREA OF ADDITIONAL TEMPORARY WORKSPACE:	411,161±	9.44 ACRES
AREA OF PERMANENT ACCESS ROAD:	88,059±	2.02 ACRES
AREA OF TEMPORARY ACCESS ROAD:	172,519±	3.96 ACRES
AREA OF POSSIBLE TEMPORARY WORKSPACE:	23,506±	0.54 ACRES

	feet	rods
CENTERLINE OF EASEMENT:	7,095±	429.99±
CENTERLINE OF TEMPORARY ACCESS ROADS:	6,859±	415.69±
CENTERLINE OF PERMANENT ACCESS ROADS:	3,521±	213.39±

I, Thomas Warner Kimmel, certify that this plat is of a PERMANENT EASEMENT for a public utility as defined in GS 62-3; that this plat was drawn under my supervision from an actual survey performed under my supervision (deed description recorded in deed book 1077, page 1830; that the ratio of precision as calculated is 1:10,000±; that the Global Positioning System (GPS) observations were performed to the Geospatial Positioning Accuracy Standards, Part 2: Standards for Geodetic Networks at the Class "A" accuracy classification (95% confidence) using RTK/VRS networks and traditional traverses.

That this plat meets the requirements of G.S. 47-30 section (f)(11)(c).

This 13th day of October, 2020

THOMAS WARNER KIMMEL, PLS
LAND OWNER INITIALS: _____
DATE: _____

TRC ENGINEERS, INC
2200 LIBERTY AVENUE,
SUITE 100
PITTSBURGH, PA 15222
PH: (724) 749-8572 tkimmel@trcsolutions.com
NC CORPORATE LICENSE No. F-0591

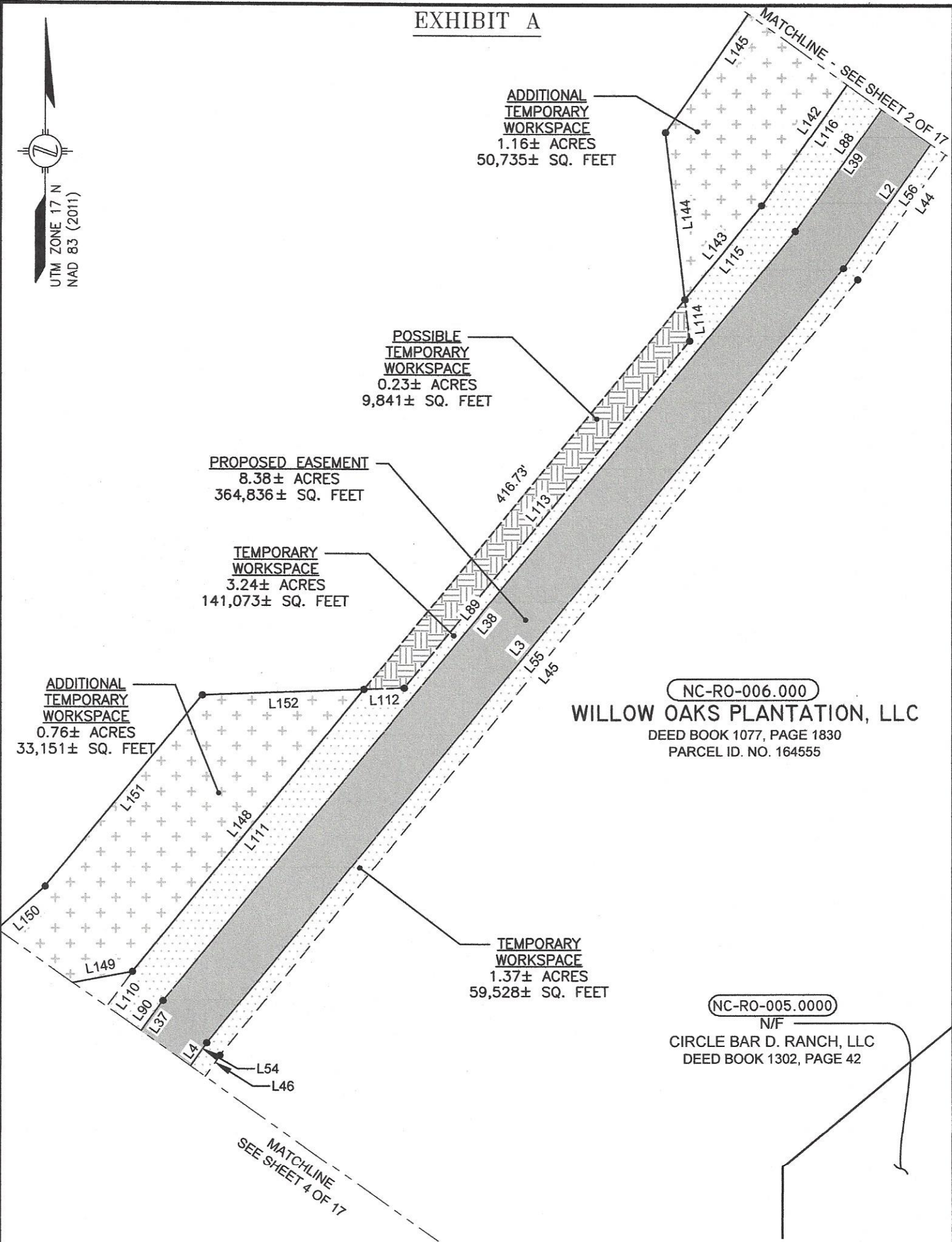
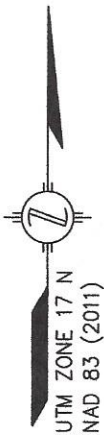


WILLOW OAKS PLANTATION, LLC

SEE SHEETS 15-17 OF 17 FOR LINE TABLES.

EASEMENT SURVEY FOR MVP SOUTHGATE TOWNSHIP OF LEAKSVILLE ROCKINGHAM COUNTY, NORTH CAROLINA			
PIPELINE EASEMENT IN PROPERTY OF WILLOW OAKS PLANTATION, LLC NC-RO-006.000 DEED BOOK 1077, PAGE 1830			
NC-RO-006.000			
Drawn By: JCL	Chk'd By:	App'd By:	TRC Proj. No. 300423
Drawn Date: 10/3/2018	DD	TWK	Sheet 2 OF 17
Scale: 1"=100'			
MVP Proj. No.			
100 50 0 100			
GRAPHIC SCALE IN FEET			
REVISIONS			
1	5/6/2020	GENERAL REMISIONS	
2	6/16/2020	ACCESS ROAD NAME	TWK
3	9/5/2020	REVISED EASEMENT AND AR'S	TWK
No.	Date	Rev By	Description
			Checked

EXHIBIT A

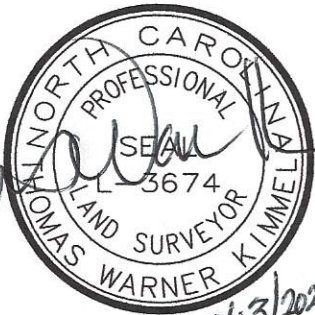


NC-RO-006.000
WILLOW OAKS PLANTATION, LLC
DEED BOOK 1077, PAGE 1830
PARCEL ID. NO. 164555

NC-RO-005.0000
N/F
CIRCLE BAR D. RANCH, LLC
DEED BOOK 1302, PAGE 42

LEGEND

- NGS MONUMENT
- EIP EXISTING IRON PIPE OR PIN
- OIPS IRON PIN SET
- CP COMPUTED POINT
- LINE NOT TO SCALE
- PERMANENT ACCESS ROAD
- TEMPORARY ACCESS ROAD
- PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (A.T.W.S.)
- POSSIBLE TEMPORARY WORKSPACE



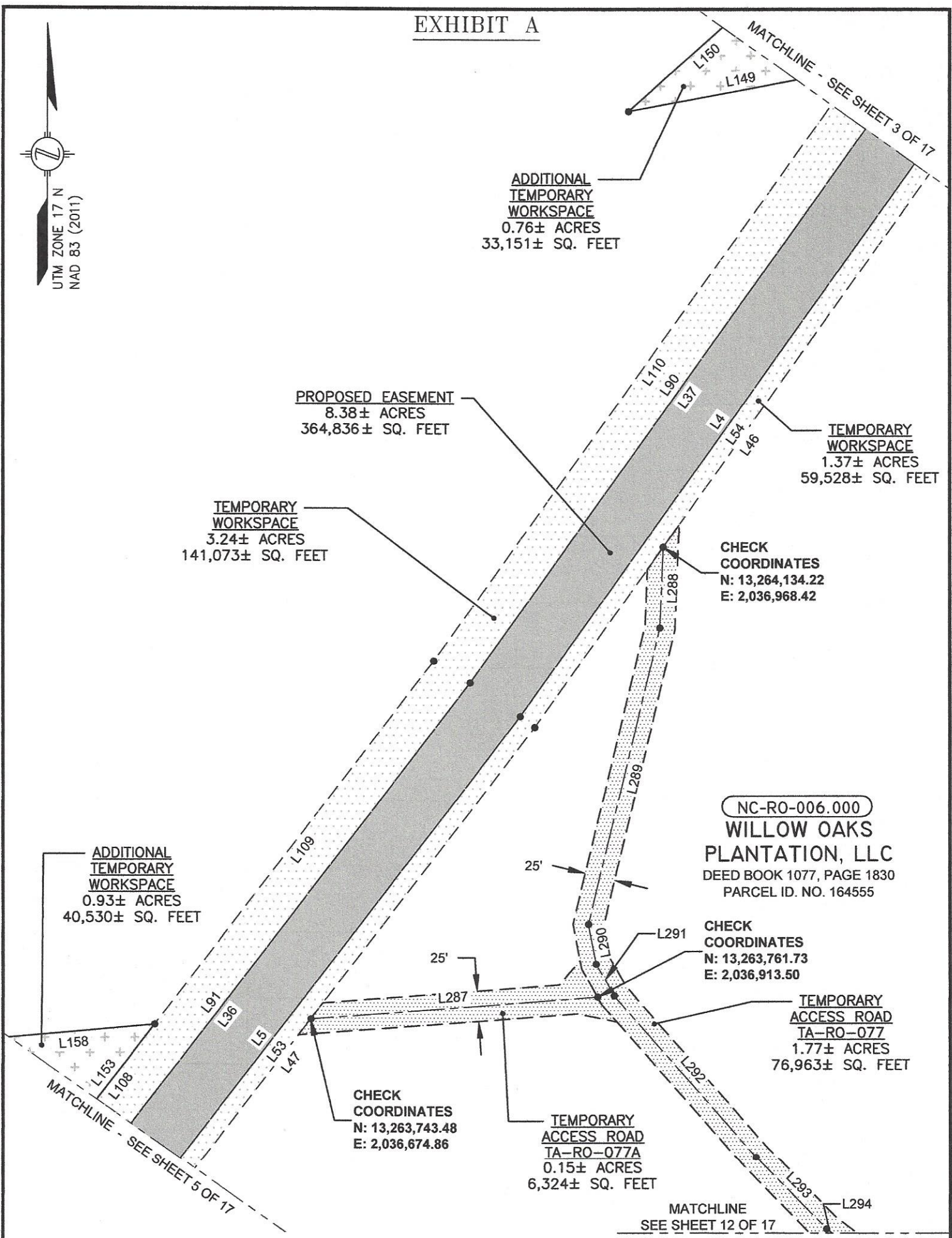
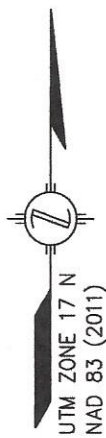
LAND OWNER INITIALS: _____
DATE: _____

SEE SHEETS 15-17 OF 17 FOR LINE TABLES.

EASEMENT SURVEY FOR MVP SOUTHGATE TOWNSHIP OF LEAKSVILLE ROCKINGHAM COUNTY, NORTH CAROLINA			
PIPELINE EASEMENT IN PROPERTY OF WILLOW OAKS PLANTATION, LLC			
NC-RO-006.000 DEED BOOK 1077, PAGE 1830			
NC-RO-006.000			
Drawn By: JCL	Chk'd By: DD	App'd By: TWK	Scale: 1"=100'
Drawn Date: 10/3/2018		Sheet: 3 OF 17	MVP Proj. No.
GRAPHIC SCALE IN FEET			
REVISIONS			
1	5/6/2020		GENERAL REVISIONS
2	6/16/2020	DKD	ACCESS ROAD NAME
3	9/5/2020	MSF	REVISED EASEMENT AND AR'S
No.	Date	Rev By	Description
			Checked

SEE SHEET 2 FOR THE LAND SURVEYOR'S CERTIFICATION, NOTES, AND VICINITY MAP.

EXHIBIT A



LEGEND

- NGS MONUMENT
- EIP EXISTING IRON PIPE OR PIN
- OIPS IRON PIN SET
- CP COMPUTED POINT
- LINE NOT TO SCALE
- PERMANENT ACCESS ROAD
- TEMPORARY ACCESS ROAD
- PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (A.T.W.S.)
- POSSIBLE TEMPORARY WORKSPACE

LAND OWNER INITIALS: _____
DATE: _____

SEE SHEET 2 FOR THE LAND SURVEYOR'S CERTIFICATION, NOTES, AND VICINITY MAP.

EASEMENT SURVEY
FOR MVP SOUTHGATE
TOWNSHIP OF LEAKSVILLE
ROCKINGHAM COUNTY, NORTH CAROLINA

Mountain Valley
PIPELINE, LLC

PIPELINE EASEMENT IN PROPERTY OF
WILLOW OAKS PLANTATION, LLC

NC-RO-006.000
DEED BOOK 1077, PAGE 1830

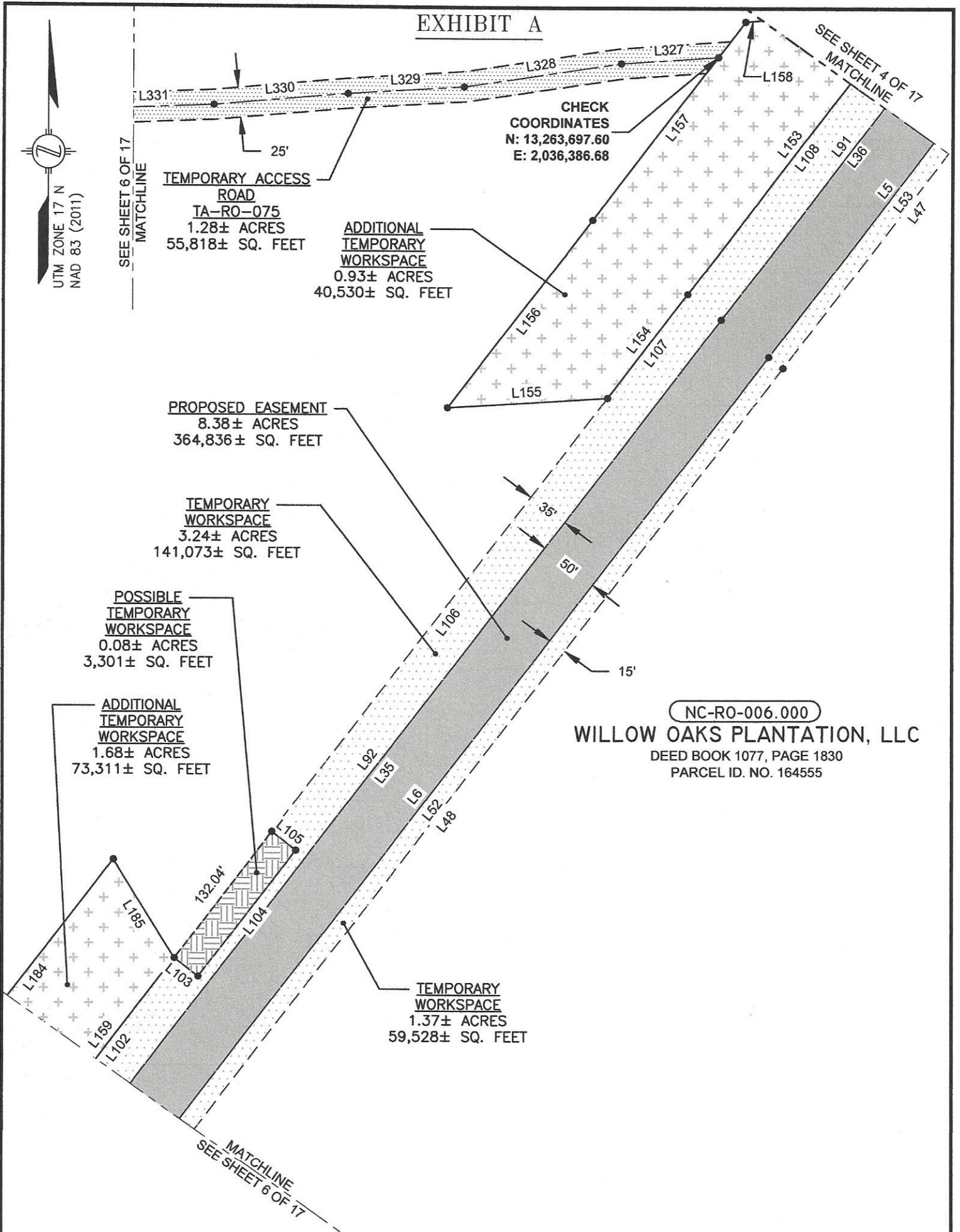
NC-RO-006.000

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Drawn Date: 10/3/2018			Sheet: 4 OF 17	MVP Proj. No.

100 50 0 100
GRAPHIC SCALE IN FEET

REVISIONS				
1	5/6/2020		GENERAL REVISIONS	
2	6/16/2020	DKD	ACCESS ROAD NAME	TWK
3	9/5/2020	MSF	REVISED EASEMENT AND AR'S	TWK
No.	Date	Rev By	Description	Checked

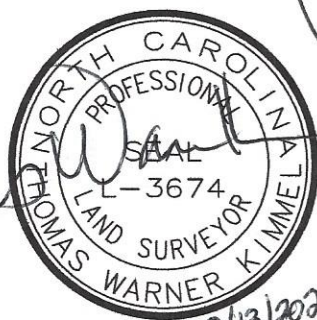
EXHIBIT A



LEGEND

- NGS MONUMENT
- EXISTING IRON PIPE OR PIN
- IRON PIN SET
- COMPUTED POINT
- LINE NOT TO SCALE
- PERMANENT ACCESS ROAD
- TEMPORARY ACCESS ROAD
- PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (A.T.W.S.)
- POSSIBLE TEMPORARY WORKSPACE

LAND OWNER INITIALS: _____
DATE: _____

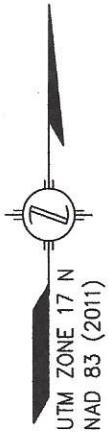


SEE SHEETS 15-17 OF 17 FOR LINE TABLES.

EASEMENT SURVEY FOR MVP SOUTHGATE TOWNSHIP OF LEAKSVILLE ROCKINGHAM COUNTY, NORTH CAROLINA			
PIPELINE EASEMENT IN PROPERTY OF WILLOW OAKS PLANTATION, LLC			
NC-RO-006.000 DEED BOOK 1077, PAGE 1830			
NC-RO-006.000			
Drawn By: JCL	Chk'd By: DD	App'd By: TWK	TRC Proj. No. 300423 Sheet 5 OF 17 Scale: 1"=100' MVP Proj. No.
100 50 0 100 GRAPHIC SCALE IN FEET			
REVISIONS			
1	5/6/2020	GENERAL REVISIONS	
2	6/16/2020	ACCESS ROAD NAME	TWK
3	9/5/2020	REVISED EASEMENT AND AR'S	TWK
No.	Date	Rev By	Description
			Checked

SEE SHEET 2 FOR THE LAND SURVEYOR'S CERTIFICATION, NOTES, AND VICINITY MAP.

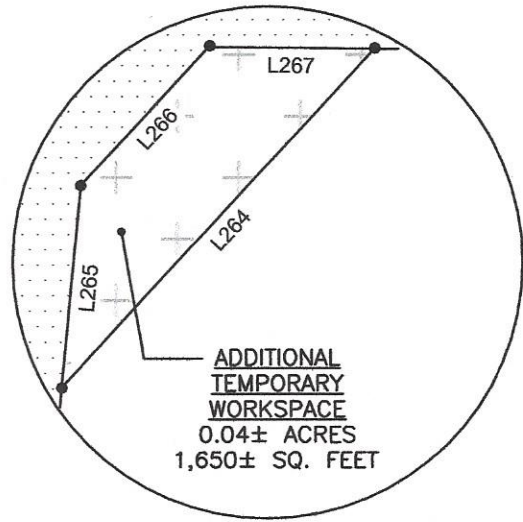
EXHIBIT A



TEMPORARY ACCESS
ROAD
TA-RO-075
1.28± ACRES
55,818± SQ. FEET

NC-RO-006.000
WILLOW OAKS PLANTATION, LLC
DEED BOOK 1077, PAGE 1830
PARCEL ID. NO. 164555

ADDITIONAL
TEMPORARY
WORKSPACE
SEE DETAIL
THIS PAGE
0.04± ACRES
1,650± SQ. FEET



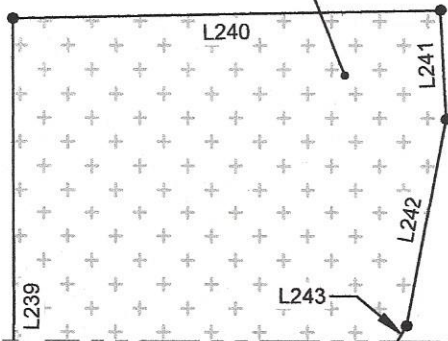
PROPOSED
EASEMENT
8.38± ACRES
364,836± SQ. FEET

TEMPORARY
WORKSPACE
3.24± ACRES
141,073± SQ. FEET

ADDITIONAL
TEMPORARY
WORKSPACE
1.68± ACRES
73,311± SQ. FEET

TEMPORARY
WORKSPACE
1.37± ACRES
59,528± SQ. FEET

ADDITIONAL
TEMPORARY
WORKSPACE
1.79± ACRES
78,007± SQ. FEET



MATCHLINE
SEE SHEET 7 OF 17

SEE SHEETS 15-17 OF 17 FOR LINE TABLES.

LEGEND

- ⊙ NGS MONUMENT
- ⊙ EIP EXISTING IRON PIPE OR PIN
- OIPS IRON PIN SET
- CP COMPUTED POINT
- LINE NOT TO SCALE
- [Pattern] PERMANENT ACCESS ROAD
- [Pattern] TEMPORARY ACCESS ROAD
- [Pattern] PERMANENT EASEMENT
- [Pattern] TEMPORARY WORKSPACE
- [Pattern] ADDITIONAL TEMPORARY WORKSPACE (A.T.W.S.)
- [Pattern] POSSIBLE TEMPORARY WORKSPACE



LAND
OWNER
INITIALS: _____
DATE: _____

SEE SHEET 2 FOR THE LAND SURVEYOR'S CERTIFICATION, NOTES, AND VICINITY MAP.

EASEMENT SURVEY
FOR MVP SOUTHGATE
TOWNSHIP OF LEAKSVILLE
ROCKINGHAM COUNTY, NORTH CAROLINA

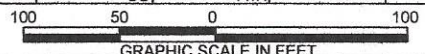


PIPELINE EASEMENT IN PROPERTY OF
WILLOW OAKS PLANTATION, LLC

NC-RO-006.000
DEED BOOK 1077, PAGE 1830

NC-RO-006.000

Drawn By: JCL	Chk'd By: DD	App'd By: TWK	TRC Proj. No. 300423	Scale: 1"=100'
Drawn Date: 10/3/2018			Sheet: 6 OF 17	MVP Proj. No.



REVISIONS				
No.	Date	Rev By	Description	Checked
1	5/6/2020		GENERAL REVISIONS	
2	6/16/2020	DKD	ACCESS ROAD NAME	TWK
3	9/5/2020	MSF	REVISED EASEMENT AND AR'S	TWK

EXHIBIT A

MATCHLINE - SEE SHEET 6 OF 17

UTM ZONE 17 N
NAD 83 (2011)

**ADDITIONAL
TEMPORARY
WORKSPACE**
1.79± ACRES
78,007± SQ. FEET

**TEMPORARY
ACCESS ROAD
TA-RO-075**
1.28± ACRES
55,818± SQ. FEET

**TEMPORARY
WORKSPACE**
1.37± ACRES
59,528± SQ. FEET

**PERMANENT ACCESS
ROAD
PA-RO-000**
2.02± ACRES
88,059± SQ. FEET

**CHECK
COORDINATES**
N: 13,262,377.49
E: 2,035,247.78

**CHECK
COORDINATES**
N: 13,262,389.32
E: 2,035,607.46

**POSSIBLE
TEMPORARY
WORKSPACE**
0.01± ACRES
589± SQ. FEET
&
0.06± ACRES
2,494± SQ. FEET

**POSSIBLE
TEMPORARY
WORKSPACE**
0.02± ACRES
686± SQ. FEET

**TEMPORARY
WORKSPACE**
3.24± ACRES
141,073± SQ. FEET

**CHECK
COORDINATES**
N: 13,262,133.33
E: 2,035,275.74

**PROPOSED
EASEMENT
LN 3600
INTERCONNECT**
0.28± ACRES
12,000± SQ. FEET
(INCLUDED IN
OVERALL PROPOSED
EASEMENT SQ. FTG.
AND ACREAGE PG.1)












PROPOSED EASEMENT
8.38± ACRES
364,836± SQ. FEET

NC-RO-006.000
WILLOW OAKS PLANTATION, LLC
DEED BOOK 1077, PAGE 1830
PARCEL ID. NO. 164555

1 - SEE DETAIL PAGE 14 OF 17
2 - SEE DETAIL PAGE 14 OF 17
3 - SEE DETAIL PAGE 14 OF 16

MATCHLINE - SEE SHEET 8 OF 17

MATCHLINE - SEE SHEET 13 OF 17

 NGS MONUMENT
 EXISTING IRON PIPE OR PIN
 IRON PIN SET
 COMPUTED POINT
 LINE NOT TO SCALE
 PERMANENT ACCESS ROAD
 TEMPORARY ACCESS ROAD
 PERMANENT EASEMENT
 TEMPORARY WORKSPACE
 ADDITIONAL TEMPORARY WORKSPACE (A.T.W.S.)
 POSSIBLE TEMPORARY WORKSPACE

LAND
OWNER
INITIALS: _____

DATE: _____

① - SEE DETAIL PAGE 14 OF 17
② - SEE DETAIL PAGE 14 OF 17
③ - SEE DETAIL PAGE 14 OF 16

EASEMENT SURVEY
FOR MVP SOUTHGATE
TOWNSHIP OF LEAKSVILLE
ROCKINGHAM COUNTY, NORTH CAROLINA



PIPELINE EASEMENT IN PROPERTY OF
WILLOW OAKS PLANTATION, LLC

NC-RO-006.000
DEED BOOK 1077, PAGE 1830

NC-RO-006.000

Drawn By:	Chk'd By:	Appd By:	TRC Proj. No.	Scale:
JCL			300423	1"=100'
Drawn Date:			Sheet:	MVP Proj. No.

10/3/2018	DD	TWK	7 OF 17
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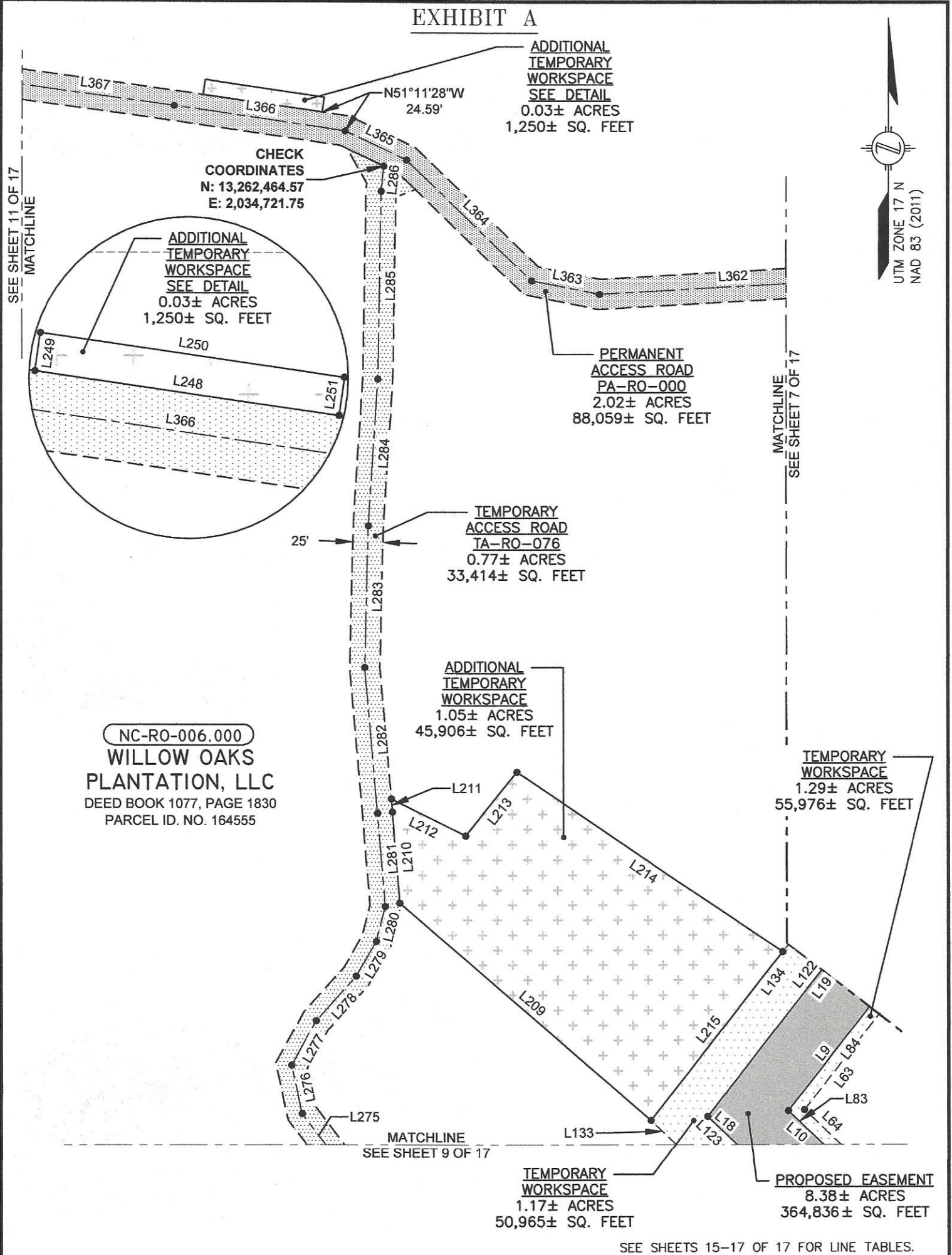


GRAPHIC SCALE IN FEET

REVISIONS

1	5/6/2020		GENERAL REVISIONS	
2	6/16/2020	DKD	ACCESS ROAD NAME	TWK
3	9/5/2020	MSF	REVISED EASEMENT AND AR'S	TWK
No.	Date	Rev By	Description	Checked

EXHIBIT A



NC-RO-006.000
WILLOW OAKS
PLANTATION, LLC
DEED BOOK 1077, PAGE 1830
PARCEL ID. NO. 164555

- LEGEND
- NGS MONUMENT
 - EXISTING IRON PIPE OR PIN
 - IRON PIN SET
 - COMPUTED POINT
 - LINE NOT TO SCALE
 - PERMANENT ACCESS ROAD
 - TEMPORARY ACCESS ROAD
 - PERMANENT EASEMENT
 - TEMPORARY WORKSPACE
 - ADDITIONAL TEMPORARY WORKSPACE (A.T.W.S.)
 - POSSIBLE TEMPORARY WORKSPACE



LAND OWNER INITIALS: _____
DATE: _____

SEE SHEETS 15-17 OF 17 FOR LINE TABLES.

EASEMENT SURVEY FOR MVP SOUTHGATE TOWNSHIP OF LEAKSVILLE ROCKINGHAM COUNTY, NORTH CAROLINA				
PIPELINE EASEMENT IN PROPERTY OF WILLOW OAKS PLANTATION, LLC				
NC-RO-006.000 DEED BOOK 1077, PAGE 1830				
NC-RO-006.000				
Drawn By: JCL	Chk'd By: DD	App'd By: TWK	TRC Proj. No. 300423	Scale: 1"=100'
Drawn Date: 10/3/2018			Sheet: 8 OF 17	MVP Proj. No.
100 50 0 100 GRAPHIC SCALE IN FEET				
REVISIONS				
1	5/6/2020		GENERAL REVISIONS	
2	6/16/2020	DKD	ACCESS ROAD NAME	TWK
3	9/5/2020	MSF	REVISED EASEMENT AND AR'S	TWK
No.	Date	Rev By	Description	Checked

SEE SHEET 2 FOR THE LAND SURVEYOR'S CERTIFICATION, NOTES, AND VICINITY MAP.

EXHIBIT A

SEE SHEET 8 OF 17
MATCHLINE

TEMPORARY
ACCESS ROAD
TA-RO-076
0.77± ACRES
33,414± SQ. FEET

TEMPORARY
WORKSPACE
1.17± ACRES
50,965± SQ. FEET

ADDITIONAL
TEMPORARY
WORKSPACE
0.91± ACRES
39,690± SQ. FEET

CHECK
COORDINATES
N: 13,261,227.52
E: 2,034,876.58

PROPOSED EASEMENT
8.38± ACRES
364,836± SQ. FEET

NC-RO-006.000
WILLOW OAKS
PLANTATION, LLC
DEED BOOK 1077, PAGE 1830
PARCEL ID. NO. 164555

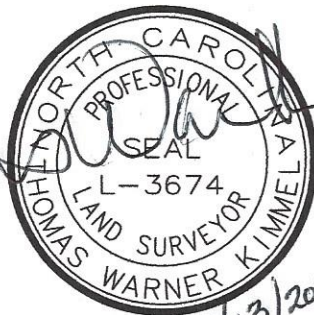
TEMPORARY
WORKSPACE
1.29± ACRES
55,976± SQ. FEET

ADDITIONAL
TEMPORARY
WORKSPACE
0.23± ACRES
10,001± SQ. FEET

LEGEND

- NGS MONUMENT
- EXISTING IRON PIPE OR PIN
- IRON PIN SET
- COMPUTED POINT
- LINE NOT TO SCALE
- PERMANENT ACCESS ROAD
- TEMPORARY ACCESS ROAD
- PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (A.T.W.S.)
- POSSIBLE TEMPORARY WORKSPACE

LAND
OWNER
INITIALS: _____
DATE: _____



SEE SHEETS 15-17 OF 17 FOR LINE TABLES.

EASEMENT SURVEY
FOR MVP SOUTHGATE
TOWNSHIP OF LEAKSVILLE
ROCKINGHAM COUNTY, NORTH CAROLINA



PIPELINE EASEMENT IN PROPERTY OF
WILLOW OAKS PLANTATION, LLC

NC-RO-006.000
DEED BOOK 1077, PAGE 1830

NC-RO-006.000

Drawn By: JCL Chk'd By: DD App'd By: TWK TREC Proj. No. 300423 Scale: 1"=100' MVP Proj. No. 9 OF 17

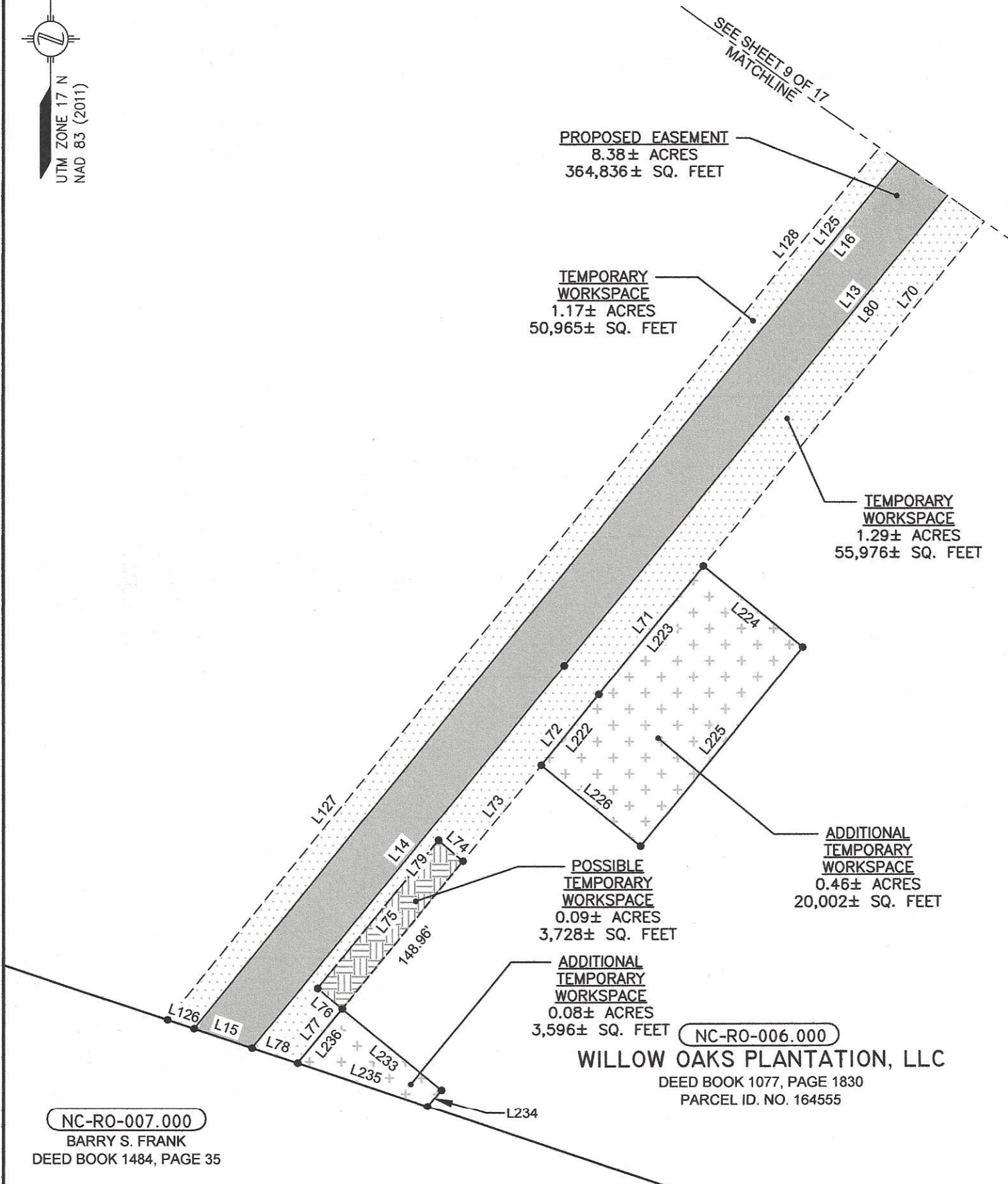
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GRAPHIC SCALE IN FEET

REVISIONS			
1	5/6/2020	GENERAL REVISIONS	
2	6/16/2020	ACCESS ROAD NAME	TWK
3	9/5/2020	REVISED EASEMENT AND AR'S	TWK
No.	Date	Rev By	Description
			Checked

SEE SHEET 2 FOR THE LAND SURVEYOR'S CERTIFICATION, NOTES, AND VICINITY MAP.

EXHIBIT A

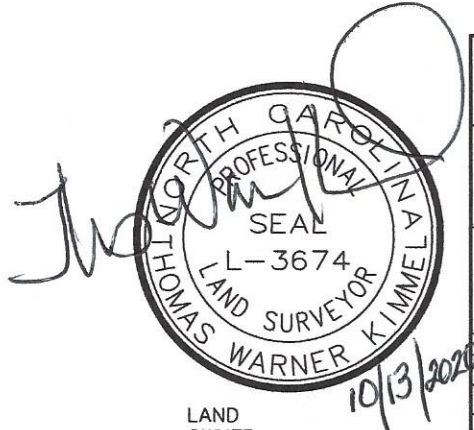
UTM ZONE 17 N
NAD 83 (2011)



NC-RO-007.000
BARRY S. FRANK
DEED BOOK 1484, PAGE 35

NC-RO-006.000
WILLOW OAKS PLANTATION, LLC
DEED BOOK 1077, PAGE 1830
PARCEL ID. NO. 164555

- LEGEND
- NGS MONUMENT
 - EIP EXISTING IRON PIPE OR PIN
 - OIPS IRON PIN SET
 - CP COMPUTED POINT
 - LINE NOT TO SCALE
 - PERMANENT ACCESS ROAD
 - TEMPORARY ACCESS ROAD
 - PERMANENT EASEMENT
 - TEMPORARY WORKSPACE
 - ADDITIONAL TEMPORARY WORKSPACE (A.T.W.S.)
 - POSSIBLE TEMPORARY WORKSPACE



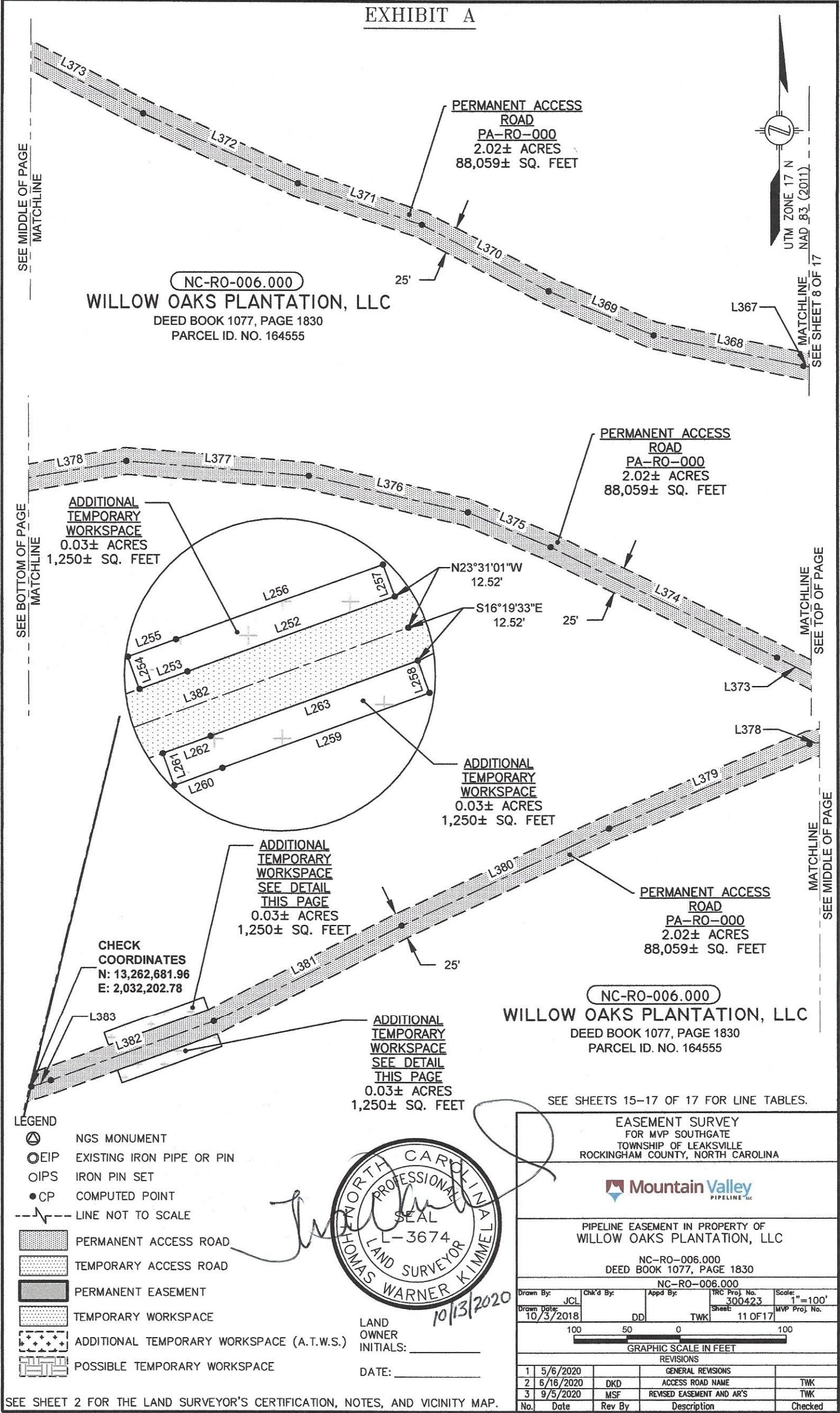
LAND OWNER INITIALS: _____
DATE: _____

SEE SHEETS 15-17 OF 17 FOR LINE TABLES.

EASEMENT SURVEY FOR MVP SOUTHGATE TOWNSHIP OF LEAKSVILLE ROCKINGHAM COUNTY, NORTH CAROLINA			
PIPELINE EASEMENT IN PROPERTY OF WILLOW OAKS PLANTATION, LLC			
NC-RO-006.000 DEED BOOK 1077, PAGE 1830			
NC-RO-006.000			
Drawn By: JCL	Chk'd By: DD	App'd By: TWK	TRC Proj. No. 300423 MVP Proj. No. 10 OF 17
Drawn Date: 10/3/2018			Scale: 1"=100'
GRAPHIC SCALE IN FEET			
100 50 0 100			
REVISIONS			
1	5/6/2020		GENERAL REVISIONS
2	6/16/2020	DKD	ACCESS ROAD NAME
3	9/5/2020	MSF	REVISED EASEMENT AND AR'S
No.	Date	Rev By	Description
			Checked

SEE SHEET 2 FOR THE LAND SURVEYOR'S CERTIFICATION, NOTES, AND VICINITY MAP.

EXHIBIT A



SEE MIDDLE OF PAGE
MATCHLINE

SEE BOTTOM OF PAGE
MATCHLINE

SEE SHEET 8 OF 17
MATCHLINE

SEE TOP OF PAGE
MATCHLINE

SEE MIDDLE OF PAGE
MATCHLINE

LEGEND

- NGS MONUMENT
- EIP EXISTING IRON PIPE OR PIN
- OIPS IRON PIN SET
- CP COMPUTED POINT
- LINE NOT TO SCALE
- PERMANENT ACCESS ROAD
- TEMPORARY ACCESS ROAD
- PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (A.T.W.S.)
- POSSIBLE TEMPORARY WORKSPACE

LAND OWNER INITIALS: _____
DATE: _____

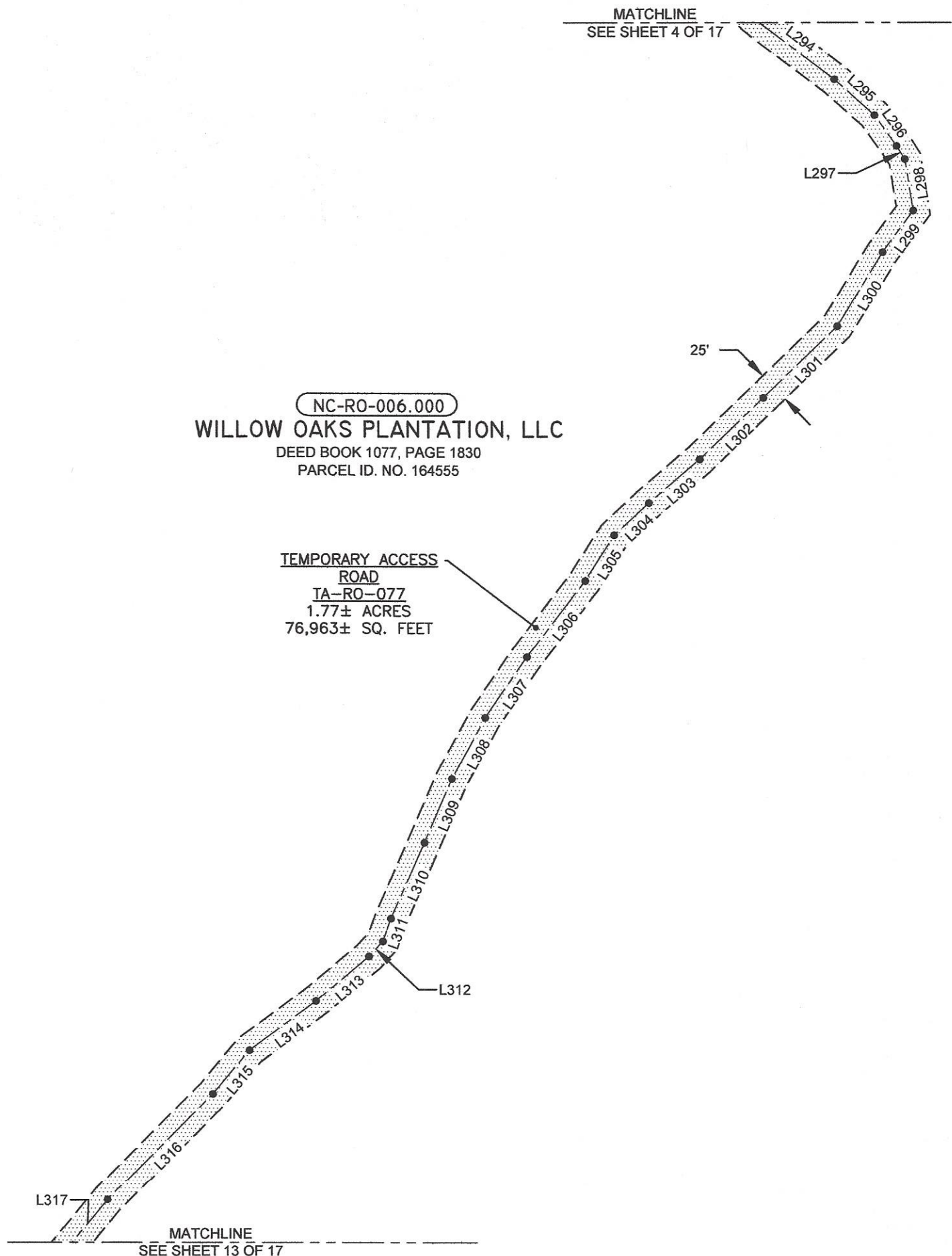


SEE SHEETS 15-17 OF 17 FOR LINE TABLES.

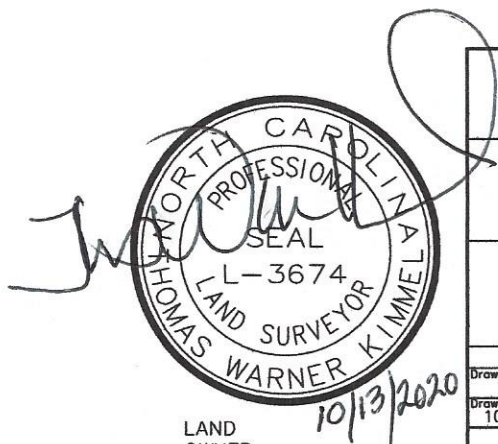
EASEMENT SURVEY FOR MVP SOUTHGATE TOWNSHIP OF LEAKSVILLE ROCKINGHAM COUNTY, NORTH CAROLINA			
PIPELINE EASEMENT IN PROPERTY OF WILLOW OAKS PLANTATION, LLC			
NC-RO-006.000 DEED BOOK 1077, PAGE 1830			
NC-RO-006.000			
Drawn By: JCL	Chk'd By: DD	App'd By: TWK	TRC Proj. No. 300423 Sheet 11 OF 17 Scale: 1"=100' MVP Proj. No.
100 50 0 100 GRAPHIC SCALE IN FEET			
REVISIONS			
1	5/6/2020	GENERAL REVISIONS	
2	6/16/2020	DKD	ACCESS ROAD NAME TWK
3	9/5/2020	MSF	REVISED EASEMENT AND AR'S TWK
No.	Date	Rev By	Description Checked

SEE SHEET 2 FOR THE LAND SURVEYOR'S CERTIFICATION, NOTES, AND VICINITY MAP.

EXHIBIT A



- LEGEND
- NGS MONUMENT
 - EIP EXISTING IRON PIPE OR PIN
 - OIPS IRON PIN SET
 - CP COMPUTED POINT
 - LINE NOT TO SCALE
 - PERMANENT ACCESS ROAD
 - TEMPORARY ACCESS ROAD
 - PERMANENT EASEMENT
 - TEMPORARY WORKSPACE
 - ADDITIONAL TEMPORARY WORKSPACE (A.T.W.S.)
 - POSSIBLE TEMPORARY WORKSPACE



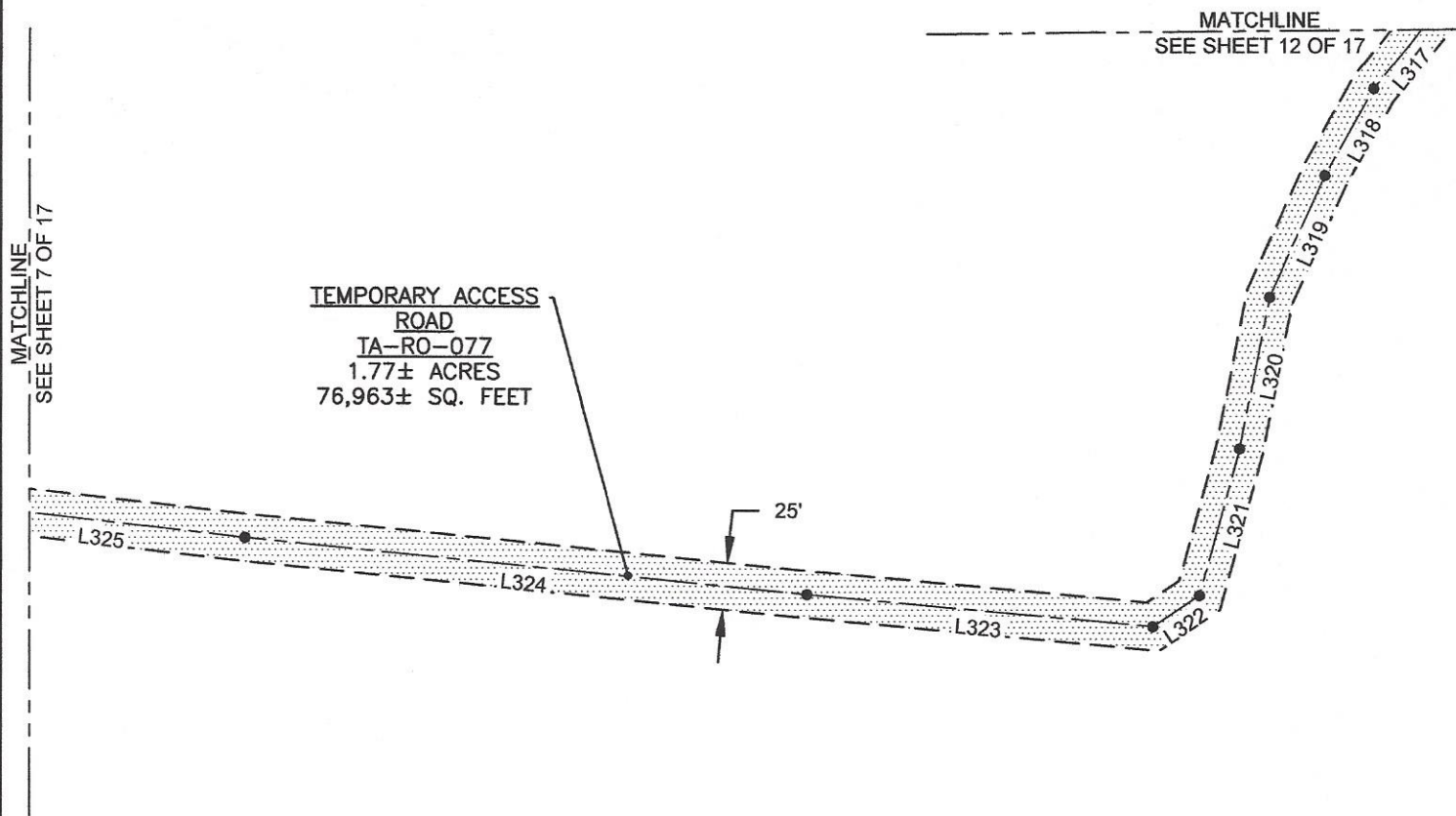
LAND OWNER INITIALS: _____
DATE: _____

SEE SHEETS 15-17 OF 17 FOR LINE TABLES.

EASEMENT SURVEY FOR MVP SOUTHGATE TOWNSHIP OF LEAKSVILLE ROCKINGHAM COUNTY, NORTH CAROLINA			
PIPELINE EASEMENT IN PROPERTY OF WILLOW OAKS PLANTATION, LLC			
NC-RO-006.000 DEED BOOK 1077, PAGE 1830			
NC-RO-006.000			
Drawn By: JCL	Chk'd By: DD	App'd By: TWK	TRC Proj. No. 300423 Sheet 12 OF 17 Scale: 1"=100'
100 50 0 100 GRAPHIC SCALE IN FEET			
REVISIONS			
1	5/6/2020	GENERAL REVISIONS	
2	6/16/2020	ACCESS ROAD NAME	TWK
3	9/5/2020	REVISED EASEMENT AND AR'S	TWK
No.	Date	Rev By	Description
			Checked

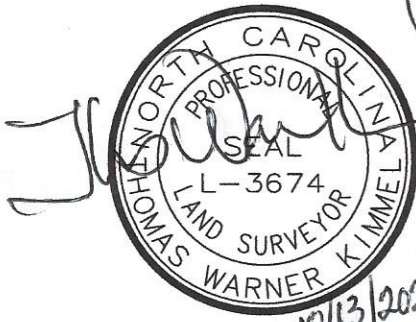
SEE SHEET 2 FOR THE LAND SURVEYOR'S CERTIFICATION, NOTES, AND VICINITY MAP.

EXHIBIT A



NC-RO-006.000
WILLOW OAKS PLANTATION, LLC
DEED BOOK 1077, PAGE 1830
PARCEL ID. NO. 164555

- LEGEND
- NGS MONUMENT
 - EIP EXISTING IRON PIPE OR PIN
 - OIPS IRON PIN SET
 - CP COMPUTED POINT
 - LINE NOT TO SCALE
 - PERMANENT ACCESS ROAD
 - TEMPORARY ACCESS ROAD
 - PERMANENT EASEMENT
 - TEMPORARY WORKSPACE
 - ADDITIONAL TEMPORARY WORKSPACE (A.T.W.S.)
 - POSSIBLE TEMPORARY WORKSPACE



LAND OWNER INITIALS: _____
DATE: _____

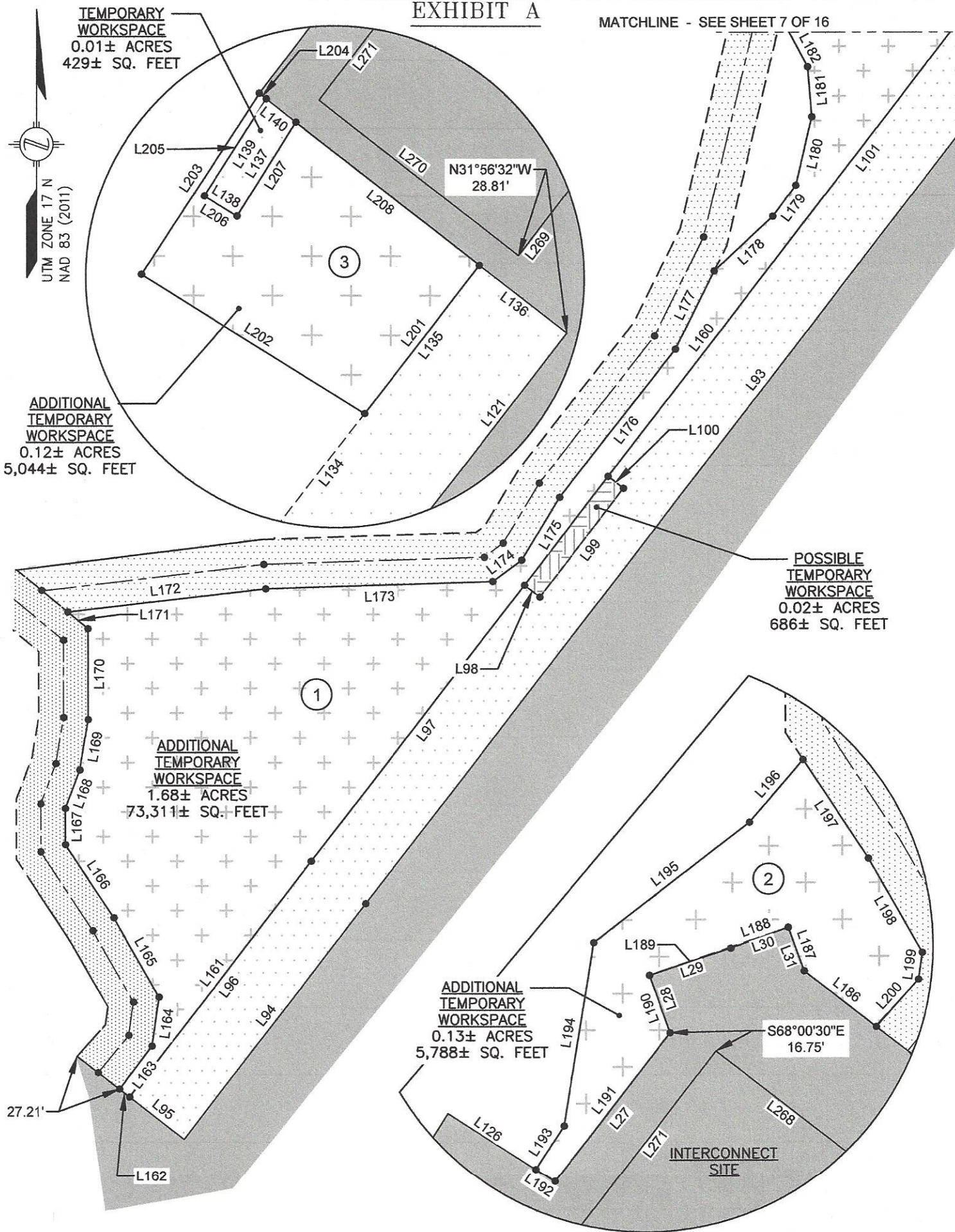
SEE SHEETS 15-17 OF 17 FOR LINE TABLES.

EASEMENT SURVEY FOR MVP SOUTHGATE TOWNSHIP OF LEAKSVILLE ROCKINGHAM COUNTY, NORTH CAROLINA				
PIPELINE EASEMENT IN PROPERTY OF WILLOW OAKS PLANTATION, LLC				
NC-RO-006.000 DEED BOOK 1077, PAGE 1830				
NC-RO-006.000				
Drawn By: JCL	Chk'd By: DD	App'd By: TWK	IRC Proj. No. 300423	Scale: 1"=100'
Drawn Date: 10/3/2018			Sheet: 13 OF 17	MVP Proj. No.
100 50 0 100 GRAPHIC SCALE IN FEET				
REVISIONS				
1	5/6/2020		GENERAL REVISIONS	
2	6/16/2020	DKD	ACCESS ROAD NAME	TWK
3	9/5/2020	MSF	REVISED EASEMENT AND AR'S	TWK
No.	Date	Rev By	Description	Checked

SEE SHEET 2 FOR THE LAND SURVEYOR'S CERTIFICATION, NOTES, AND VICINITY MAP.

EXHIBIT A

MATCHLINE - SEE SHEET 7 OF 16



LEGEND

- NGS MONUMENT
- EIP EXISTING IRON PIPE OR PIN
- OIPS IRON PIN SET
- CP COMPUTED POINT
- LINE NOT TO SCALE
- PERMANENT ACCESS ROAD
- TEMPORARY ACCESS ROAD
- PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (A.T.W.S.)
- POSSIBLE TEMPORARY WORKSPACE



LAND OWNER INITIALS: _____
DATE: _____

SEE SHEETS 15-17 OF 17 FOR LINE TABLES.

EASEMENT SURVEY
FOR MVP SOUTHGATE
TOWNSHIP OF LEAKSVILLE
ROCKINGHAM COUNTY, NORTH CAROLINA



PIPELINE EASEMENT IN PROPERTY OF
WILLOW OAKS PLANTATION, LLC

NC-RO-006.000
DEED BOOK 1077, PAGE 1830

NC-RO-006.000

Drawn By: JCL	Chk'd By: DD	App'd By: TWK	TRC Proj. No. 300423	Scale: 1\"/>
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REVISIONS				
GENERAL REVISIONS				
1	5/6/2020		ACCESS ROAD NAME	TWK
2	6/16/2020	DKD	REVISD EASEMENT AND AR'S	TWK
3	9/5/2020	MSF		
No.	Date	Rev By	Description	Checked

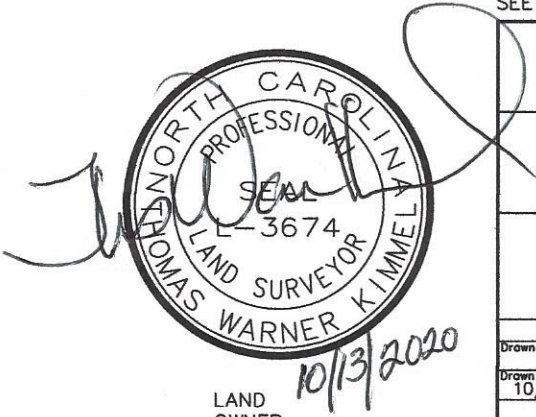
SEE SHEET 2 FOR THE LAND SURVEYOR'S CERTIFICATION, NOTES, AND VICINITY MAP.

EXHIBIT A


PROPOSED EASEMENT		
LINE TABLE		
LINE	BEARING	DISTANCE
L1	S37°08'30"W	199.69'
L2	S35°13'22"W	392.09'
L3	S39°31'00"W	824.10'
L4	S35°38'18"W	589.68'
L5	S37°41'16"W	686.96'
L6	S37°44'19"W	932.77'
L7	S37°49'35"W	663.59'
L8	S37°44'50"W	401.40'
L9	S38°07'44"W	239.90'
L10	S45°55'10"E	215.60'
L11	S39°33'11"W	393.09'
L12	S39°27'25"W	410.24'
L13	S39°19'29"W	728.05'
L14	S39°18'37"W	385.05'
L15	N71°32'38"W	47.73'
L16	N39°10'03"E	1,588.20'
L17	N39°33'11"E	299.23'
L18	N45°55'09"W	214.46'
L19	N38°07'44"E	284.79'
L20	N37°44'50"E	50.05'
L21	N52°15'10"W	35.00'
L22	N52°14'11"W	88.30'
L23	N37°48'32"E	41.01'
L24	N57°24'39"W	38.68'
L25	N32°35'21"E	50.00'
L26	S57°24'39"E	43.25'
L27	N37°48'32"E	64.21'
L28	N19°43'32"W	20.84'
L29	N71°51'40"E	29.18'
L30	N70°16'29"E	20.83'
L31	S20°06'46"E	15.75'
L32	S52°15'09"E	99.80'
L33	N37°44'50"E	151.23'
L34	N37°49'35"E	663.59'
L35	N37°44'19"E	932.69'
L36	N37°41'16"E	683.52'
L37	N35°39'55"E	595.79'
L38	N39°31'00"E	821.14'
L39	N35°13'22"E	391.05'
L40	N37°08'30"E	251.98'
L41	S07°02'10"E	71.75'

TEMPORARY WORKSPACE								
LINE TABLE			LINE TABLE			LINE TABLE		
LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE
L42	S07°02'10"E	21.52'	L77	S39°18'37"W	55.01'	L112	N87°56'27"E	33.42'
L43	S37°08'30"W	184.00'	L78	N71°32'38"W	37.45'	L113	N39°31'00"E	370.58'
L44	S35°13'22"W	392.40'	L79	N39°18'37"E	385.05'	L114	N06°41'10"W	34.64'
L45	S39°31'00"W	824.15'	L80	N39°19'29"E	728.05'	L115	N39°31'00"E	99.64'
L46	S35°38'18"W	589.44'	L81	N39°27'25"E	410.24'	L116	N35°13'22"E	390.32'
L47	S37°41'16"W	687.23'	L82	N39°33'11"E	393.09'	L117	N37°08'30"E	161.04'
L48	S37°44'19"W	932.80'	L83	N45°55'10"W	215.60'	L118	S52°51'29"E	25.00'
L49	S37°49'35"W	350.93'	L84	N38°07'44"E	239.90'	L119	N37°08'30"E	101.82'
L50	N52°10'25"W	15.00'	L85	N37°44'50"E	401.40'	L120	S07°02'10"E	14.35'
L51	N37°49'35"E	350.92'	L86	N37°49'35"E	77.94'	L121	S37°44'50"W	50.05'
L52	N37°44'19"E	932.77'	L87	S37°08'30"W	251.98'	L122	S38°07'44"W	284.79'
L53	N37°41'16"E	686.96'	L88	S35°13'22"W	391.05'	L123	S45°55'09"E	214.46'
L54	N35°38'18"E	589.68'	L89	S39°31'00"W	821.14'	L124	S39°33'11"W	299.23'
L55	N39°31'00"E	824.10'	L90	S35°39'55"W	595.79'	L125	S39°10'03"W	1,588.20'
L56	N35°13'22"E	392.09'	L91	S37°41'16"W	683.52'	L126	N71°32'38"W	21.83'
L57	N37°08'30"E	199.69'	L92	S37°44'19"W	932.69'	L127	N39°18'37"E	409.82'
L58	S52°10'25"E	15.00'	L93	S37°49'35"W	663.59'	L128	N39°19'29"E	728.12'
L59	S37°49'35"W	77.93'	L94	S37°44'50"W	151.23'	L129	N39°27'25"E	410.37'
L60	S37°44'50"W	401.44'	L95	N52°15'09"W	35.00'	L130	N39°33'11"E	333.09'
L61	S38°07'44"W	101.62'	L96	N37°44'50"E	151.25'	L131	N45°55'09"W	113.63'
L62	N84°30'38"W	5.94'	L97	N37°49'35"E	177.38'	L132	S44°04'50"W	20.00'
L63	S38°07'44"W	126.11'	L98	S52°10'25"E	9.86'	L133	N45°55'09"W	118.51'
L64	S45°55'10"E	215.83'	L99	N37°49'35"E	69.53'	L134	N38°07'44"E	306.61'
L65	S39°33'11"W	402.32'	L100	N52°10'25"W	9.86'	L135	N37°48'32"E	59.53'
L66	S39°27'25"W	383.04'	L101	N37°49'35"E	416.68'	L136	S52°15'10"E	35.00'
L67	S51°08'52"E	25.00'	L102	N37°44'19"E	238.21'	L137	S32°05'45"W	35.13'
L68	S39°27'25"W	27.42'	L103	S52°15'41"E	25.00'	L138	N58°23'34"W	12.18'
L69	S39°19'29"W	72.61'	L104	N37°44'19"E	132.04'	L139	N32°39'56"E	36.40'
L70	S39°19'29"W	526.20'	L105	N52°15'41"W	25.00'	L140	S52°14'11"E	11.87'
L71	S39°19'29"W	129.19'	L106	N37°44'19"E	453.82'			
L72	S39°18'37"W	70.84'	L107	N37°44'19"E	108.60'			
L73	S39°18'37"W	96.91'	L108	N37°41'16"E	299.20'			
L74	N49°17'59"W	25.01'	L109	N37°41'16"E	380.11'			
L75	S39°18'37"W	149.25'	L110	N35°42'07"E	603.78'			
L76	S49°58'21"E	25.00'	L111	N39°31'00"E	300.76'			

SEE SHEETS 2-14 OF 17 FOR GRAPHICS AND LABELS.



LAND OWNER INITIALS: _____
DATE: _____

EASEMENT SURVEY FOR MVP SOUTHGATE TOWNSHIP OF LEAKSVILLE ROCKINGHAM COUNTY, NORTH CAROLINA				
				
PIPELINE EASEMENT IN PROPERTY OF WILLOW OAKS PLANTATION, LLC				
NC-RO-006.000 DEED BOOK 1077, PAGE 1830				
NC-RO-006.000				
Drawn By: JCL	Chk'd By:	App'd By:	TRC Proj. No. 300423	Scale: N.T.S.
Drawn Date: 10/3/2018	DD	TWK	Sheet 15 OF 17	MVP Proj. No.
REVISIONS				
1	5/6/2020		GENERAL REVISIONS	
2	6/16/2020	DKD	ACCESS ROAD NAME	TWK
3	9/5/2020	MSF	REVISED EASEMENT AND AR'S	TWK
No.	Date	Rev By	Description	Checked

SEE SHEET 2 FOR THE LAND SURVEYOR'S CERTIFICATION.

EXHIBIT A

ADDITIONAL TEMPORARY WORKSPACE											
LINE TABLE			LINE TABLE			LINE TABLE			LINE TABLE		
LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE
L141	S37°08'30"W	67.41'	L176	N38°10'37"E	95.52'	L211	N04°53'22"W	10.83'	L246	S83°00'23"W	125.58'
L142	S35°13'22"W	390.32'	L177	N26°40'06"E	44.22'	L212	S63°52'35"E	68.83'	L247	N89°36'27"W	16.08'
L143	S39°31'00"W	99.64'	L178	N47°14'17"E	40.68'	L213	N39°07'26"E	67.81'	L248	N81°45'03"W	100.00'
L144	N06°41'10"W	138.54'	L179	N36°47'34"E	19.55'	L214	S55°58'47"E	266.11'	L249	N08°14'56"E	12.50'
L145	N35°13'22"E	388.25'	L180	N13°18'03"E	35.73'	L215	S38°07'44"W	177.43'	L250	S81°45'03"E	100.00'
L146	N37°08'30"E	69.08'	L181	N04°48'14"W	25.17'	L216	S50°39'35"E	100.00'	L251	S08°14'56"W	12.50'
L147	S52°51'29"E	100.00'	L182	N28°28'29"W	28.46'	L217	S39°27'25"W	27.51'	L252	S70°04'43"W	81.22'
L148	S39°31'00"W	300.76'	L183	N09°01'09"E	35.96'	L218	S39°19'29"W	72.49'	L253	S70°04'43"W	18.78'
L149	S79°28'07"W	193.52'	L184	N37°46'04"E	419.00'	L219	N50°40'31"W	100.00'	L254	N19°55'17"W	12.50'
L150	N48°21'15"E	157.95'	L185	S31°56'09"E	95.99'	L220	N39°19'29"E	72.61'	L255	N70°04'43"E	18.78'
L151	N39°31'00"E	204.32'	L186	N52°15'09"W	31.06'	L221	N39°27'25"E	27.42'	L256	N70°04'43"E	81.22'
L152	N87°56'27"E	133.68'	L187	N20°06'46"W	15.75'	L222	N39°18'37"E	70.84'	L257	S19°55'17"E	12.50'
L153	S37°41'16"W	299.20'	L188	S70°16'29"W	20.83'	L223	N39°19'29"E	129.19'	L258	S19°55'17"E	12.50'
L154	S37°44'19"W	108.60'	L189	S71°51'40"W	29.18'	L224	S50°40'31"E	100.00'	L259	S70°04'43"W	81.22'
L155	S86°29'24"W	133.00'	L190	S19°43'32"E	20.84'	L225	S39°19'11"W	200.00'	L260	S70°04'43"W	18.78'
L156	N37°44'19"E	196.26'	L191	S37°48'32"W	64.21'	L226	N50°41'23"W	100.00'	L261	N19°55'17"W	12.50'
L157	N37°41'16"E	206.54'	L192	N57°24'39"W	7.78'	L227	S39°10'02"W	150.00'	L262	N70°04'43"E	18.78'
L158	N84°53'08"E	136.29'	L193	N33°02'56"E	17.75'	L228	N50°49'58"W	200.00'	L263	N70°04'43"E	81.22'
L159	S37°44'19"W	238.21'	L194	N09°20'18"E	63.22'	L229	N39°10'02"E	231.23'	L264	S42°46'43"W	93.71'
L160	S37°49'35"W	663.58'	L195	N52°32'48"E	67.00'	L230	S34°15'53"E	150.41'	L265	N05°22'10"E	41.15'
L161	S37°44'50"W	151.25'	L196	N40°38'18"E	28.09'	L231	S16°23'24"E	66.26'	L266	N42°46'43"E	38.33'
L162	N52°15'09"W	6.53'	L197	S33°24'49"E	40.35'	L232	S14°54'04"E	1.47'	L267	S89°27'23"E	33.77'
L163	N37°13'33"E	27.45'	L198	S29°46'00"E	36.81'	L233	S50°41'23"E	100.00'			
L164	N08°05'06"E	25.24'	L199	S08°05'03"W	9.11'	L234	S39°18'37"W	16.92'			
L165	N29°46'00"W	46.17'	L200	S41°42'53"W	21.69'	L235	N71°32'38"W	107.01'			
L166	N33°24'48"W	44.51'	L201	S37°48'32"W	59.53'	L236	N39°18'37"E	55.01'			
L167	N00°00'02"E	18.33'	L202	N58°08'39"W	83.29'	L237	N03°41'35"W	100.50'			
L168	N20°41'45"E	20.86'	L203	N33°13'29"E	68.32'	L238	N77°44'56"E	78.84'			
L169	N09°26'59"E	25.80'	L204	S52°14'28"E	2.77'	L239	N00°23'04"W	323.96'			
L170	N00°01'06"E	45.98'	L205	S32°39'56"W	36.40'	L240	N88°49'32"E	222.99'			
L171	N50°17'56"W	13.26'	L206	S58°23'34"E	12.18'	L241	S03°11'08"E	56.47'			
L172	N83°18'09"E	101.39'	L207	N32°05'45"E	35.13'	L242	S10°43'11"W	110.33'			
L173	N88°00'58"E	115.66'	L208	S52°14'11"E	73.66'	L243	S30°40'06"W	218.92'			
L174	N53°40'13"E	18.33'	L209	N49°09'03"W	275.59'	L244	S11°06'00"W	78.52'			
L175	N31°23'19"E	37.01'	L210	N04°43'15"W	75.37'	L245	S88°00'58"W	6.45'			



LAND
OWNER
INITIALS: _____

DATE: _____

SEE SHEET 2 FOR THE LAND SURVEYOR'S CERTIFICATION.

SEE SHEETS 2-14 OF 17 FOR GRAPHICS AND LABELS.

EASEMENT SURVEY FOR MVP SOUTHGATE TOWNSHIP OF LEAKSVILLE ROCKINGHAM COUNTY, NORTH CAROLINA				
PIPELINE EASEMENT IN PROPERTY OF WILLOW OAKS PLANTATION, LLC				
NC-RO-006.000 DEED BOOK 1077, PAGE 1830				
NC-RO-006.000				
Drawn By: JCL	Chk'd By: DD	App'd By: TWK	TRC Proj. No. 300423	Scale: N.T.S.
Drawn Date: 10/3/2018			Sheet: 16 OF 17	MVP Proj. No.
REVISIONS				
1	5/6/2020		GENERAL REVISIONS	
2	6/16/2020	DKD	ACCESS ROAD NAME	TWK
3	9/5/2020	MSF	REVISED EASEMENT AND AR'S	TWK
No.	Date	Rev By	Description	Checked

EXHIBIT A

INTERCONNECT SITE		
LINE TABLE		
LINE	BEARING	DISTANCE
L268	S52°15'10"E	80.00'
L269	S37°44'50"W	150.00'
L270	N52°15'10"W	80.00'
L271	N37°44'50"E	150.00'

TEMPORARY ACCESS ROAD		
LINE TABLE		
LINE	BEARING	DISTANCE
L272	N14°54'04"W	166.46'
L273	N16°23'24"W	68.39'
L274	N34°15'53"W	159.04'
L275	N37°03'34"W	118.72'
L276	N12°10'54"W	41.13'
L277	N29°09'32"E	41.90'
L278	N42°08'35"E	49.70'
L279	N29°43'00"E	33.64'
L280	N14°37'18"E	29.96'
L281	N04°43'15"W	77.14'
L282	N04°53'22"W	121.59'
L283	N01°26'16"E	117.25'
L284	N03°47'49"E	121.75'
L285	N00°58'03"E	155.04'
L286	N05°50'08"E	20.92'
L287	N85°37'40"E	239.34'
L288	S02°21'00"W	66.86'
L289	S13°40'03"W	252.67'
L290	S10°55'48"E	33.48'
L291	S29°41'54"E	30.21'
L292	S41°11'20"E	178.87'
L293	S44°21'20"E	83.77'
L294	S53°14'04"E	78.57'
L295	S48°27'13"E	41.66'
L296	S35°28'38"E	29.74'
L297	S32°05'09"E	12.11'
L298	S09°29'59"E	40.20'
L299	S36°40'50"W	40.18'
L300	S31°42'00"W	67.31'
L301	S46°09'07"W	79.91'
L302	S46°07'42"W	68.74'
L303	S49°52'49"W	51.81'
L304	S47°05'26"W	36.83'
L305	S32°28'36"W	42.01'
L306	S37°39'51"W	74.30'

TEMPORARY ACCESS ROAD					
LINE TABLE			LINE TABLE		
LINE	BEARING	DISTANCE	LINE	BEARING	DISTANCE
L307	S34°47'26"W	57.02'	L342	S02°47'52"W	108.91'
L308	S28°42'42"W	54.14'	L343	S03°19'20"W	146.28'
L309	S23°28'18"W	54.05'	L344	S09°01'09"W	110.11'
L310	S23°57'37"W	64.11'	L345	S13°29'57"W	116.71'
L311	S20°23'18"W	18.66'	L346	S26°40'06"W	55.82'
L312	S42°45'16"W	16.07'	L347	S38°10'37"W	95.00'
L313	S49°47'05"W	53.74'	L348	S31°23'19"W	35.29'
L314	S53°23'28"W	64.59'	L349	S53°40'13"W	12.01'
L315	S40°12'19"W	44.33'	L350	S88°00'58"W	112.32'
L316	S44°57'57"W	116.15'	L351	S83°08'14"W	113.49'
L317	S39°10'48"W	81.24'			
L318	S29°24'37"W	53.21'			
L319	S24°29'01"W	71.32'			
L320	S11°10'45"W	82.07'			
L321	S15°20'24"W	81.01'			
L322	S56°20'27"W	29.86'			
L323	N84°39'51"W	185.50'			
L324	N84°26'38"W	301.59'			
L325	N83°30'48"W	220.76'			
L326	N83°14'26"W	119.84'			
L327	S86°08'05"W	80.66'			
L328	S81°26'32"W	131.87'			
L329	S86°22'33"W	96.53'			
L330	S84°54'10"W	111.87'			
L331	S87°43'09"W	100.23'			
L332	S83°20'43"W	93.94'			
L333	N89°27'23"W	81.59'			
L334	S37°25'07"W	17.64'			
L335	S03°26'00"E	26.73'			
L336	S05°22'10"W	44.31'			
L337	S12°15'42"W	101.49'			
L338	S09°02'34"W	93.59'			
L339	S02°42'03"W	117.89'			
L340	S01°47'19"E	95.73'			
L341	S00°56'08"E	118.76'			


PERMANENT ACCESS ROAD		
LINE TABLE		
LINE	BEARING	DISTANCE
L352	N39°25'06"E	24.55'
L353	N08°05'09"E	17.18'
L354	N29°46'01"W	41.49'
L355	N33°24'48"W	47.86'
L356	NORTH	24.36'
L357	N20°41'45"E	21.91'
L358	N09°26'59"E	23.54'
L359	N00°01'06"E	39.08'
L360	N50°17'56"W	36.55'
L361	N89°36'27"W	30.65'
L362	S86°47'21"W	298.86'
L363	N78°37'38"W	57.51'
L364	N46°26'06"W	143.49'
L365	N65°05'42"W	56.52'
L366	N81°45'03"W	143.81'
L367	N82°15'57"W	134.10'
L368	N78°29'14"W	144.02'
L369	N67°24'30"W	107.04'
L370	N62°19'35"W	134.93'
L371	N71°40'29"W	123.27'
L372	N66°15'05"W	159.51'
L373	N63°14'50"W	156.25'
L374	N63°57'36"W	237.33'
L375	N67°21'25"W	84.53'
L376	N77°17'13"W	153.69'
L377	N85°30'18"W	172.55'
L378	S80°21'19"W	104.05'
L379	S67°19'16"W	204.89'
L380	S65°00'19"W	215.81'
L381	S62°53'14"W	198.91'
L382	S70°04'43"W	163.44'
L383	S72°08'36"W	19.47'



LAND
OWNER
INITIALS: _____

DATE: _____

SEE SHEETS 2-14 OF 17 FOR GRAPHICS AND LABELS.

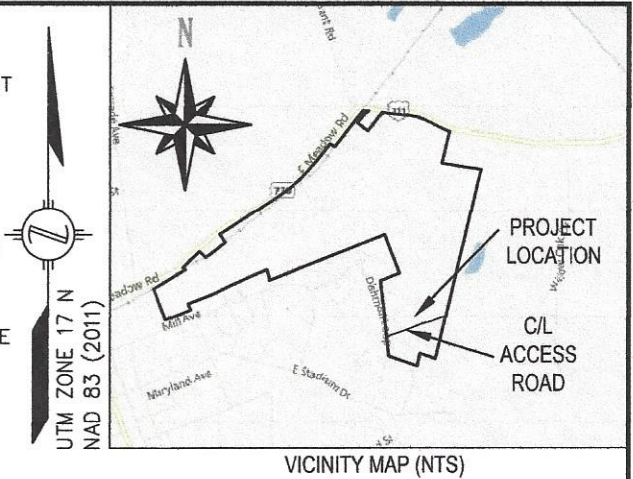
EASEMENT SURVEY FOR MVP SOUTHGATE TOWNSHIP OF LEAKSVILLE ROCKINGHAM COUNTY, NORTH CAROLINA			
			
PIPELINE EASEMENT IN PROPERTY OF WILLOW OAKS PLANTATION, LLC			
NC-RO-006.000 DEED BOOK 1077, PAGE 1830			
NC-RO-006.000			
Drawn By: JCL	Chk'd By: DD	App'd By: TWK	TRC Proj. No. 300423 Sheet: 17 OF 17 Scale: N.T.S. MVP Proj. No.
10/3/2018			
REVISIONS			
1	5/6/2020		GENERAL REVISIONS
2	6/16/2020	DKD	ACCESS ROAD NAME
3	9/5/2020	MSF	REVISED EASEMENT AND AR'S
No.	Date	Rev By	Description
			Checked

SEE SHEET 2 FOR THE LAND SURVEYOR'S CERTIFICATION.

EXHIBIT A

NOTES

1. ALL DISTANCES SHOWN HEREON ARE HORIZONTAL GRID DISTANCES, A PROJECT SCALE FACTOR (PSF) OF 0.99979557 WAS ESTABLISHED FOR THIS PROJECT. TO OBTAIN GROUND DISTANCE, DIVIDE THE DISTANCE SHOWN BY THE PSF.
2. AREAS DETERMINED BY COORDINATE METHOD.
3. AREAS SHOWN ARE SUBJECT TO EASEMENT OF RECORD.
4. RECORD REFERENCES: DEED BOOK 1077, PAGE 1867.
5. PARCEL ID: 165627Z1
6. PROPERTY LINES SHOWN ARE BASED ON EXISTING DEEDS, PLATS AND VISIBLE MONUMENTATION DISCOVERED ALONG PROJECT AREA.
7. THIS SURVEY IS REFERENCED TO UTM ZONE 17 N NAD (2011).
8. ALL CORNERS ARE AS NOTED.
9. THIS PLAT IS FOR EASEMENT ACQUISITION PURPOSES ONLY AND IS NOT TO BE CONSIDERED A BOUNDARY SURVEY OF THE PARENT TRACT.
10. TEMPORARY EASEMENT TO BE ACQUIRED.



(NC-RO-006.001.AR)
**WILLOW OAKS
PLANTATION, LLC**
DEED BOOK 1077, PAGE 1867
PARCEL ID. NO. 165627Z1

**PERMANENT
ACCESS ROAD**
PA-RO-000
0.83± ACRES
36,215± SQ. FEET

**POINT OF
BEGINNING**
N:13,262,681.96
E:2,032,202.78

(NC-RO-006.000)
N/F
**WILLOW OAKS
PLANTATION, LLC**
DEED BOOK 1077, PAGE
1830

SEE SHEET 2 OF 2
MATCHLINE

- LEGEND**
- NGS MONUMENT
 - EIP EXISTING IRON PIPE OR PIN
 - OIPS IRON PIN SET
 - CP COMPUTED POINT
 - LINE NOT TO SCALE
 - PERMANENT ACCESS ROAD
 - TEMPORARY ACCESS ROAD
 - PERMANENT EASEMENT
 - TEMPORARY WORKSPACE
 - ADDITIONAL TEMPORARY WORKSPACE (A.T.W.S.)
 - POSSIBLE TEMPORARY WORKSPACE

N13°14'05"W
46,309.51' GRID
**NGS MONUMENT
SHILOH**
N:13,217,602.44
E:2,042,805.03
CSF:0.99975126

N62°37'14"E
2'755.53' GRID
**NGS MONUMENT
BARNES**
N:13,216,335.22
E:2,040,358.17
CSF:0.99974929

WILLOW OAKS PLANTATION, LLC

AREA OF PERMANENT ACCESS ROAD: $\frac{\text{sq. ft.}}{36,215\pm}$ $\frac{\text{acres}}{0.83 \text{ ACRES}}$

CENTERLINE OF EASEMENT: $\frac{\text{feet}}{1,433\pm}$ $\frac{\text{rods}}{86.87\pm}$

SEE SHEET 2 OF 2 FOR LINE TABLES

I, Thomas Warner Kimmel, certify that this plat is of a PERMANENT EASEMENT for a public utility as defined in GS 62-3; that this plat was drawn under my supervision from an actual survey performed under my supervision (deed description recorded in deed book 1077, page 1867); that the ratio of precision as calculated is 1:10,000±; that the Global Positioning System (GPS) observations were performed to the Geospatial Positioning Accuracy Standards, Part 2: Standards for Geodetic Networks at the Class "A" accuracy classification (95% confidence) using RTK/VRS networks and traditional traverses.

That this plat meets the requirements of G.S. 47-30 section (f)(11)(c).

This 27th day of April, 2020

THOMAS WARNER KIMMEL, PLS L 3674

LAND
OWNER
INITIALS: _____

DATE: _____

TRC ENGINEERS, INC
2200 LIBERTY AVENUE,
SUITE 100
PITTSBURGH, PA 15222
PH: (724) 749-8572 tkimmel@trcsolutions.com
NC CORPORATE LICENSE No. F-0591

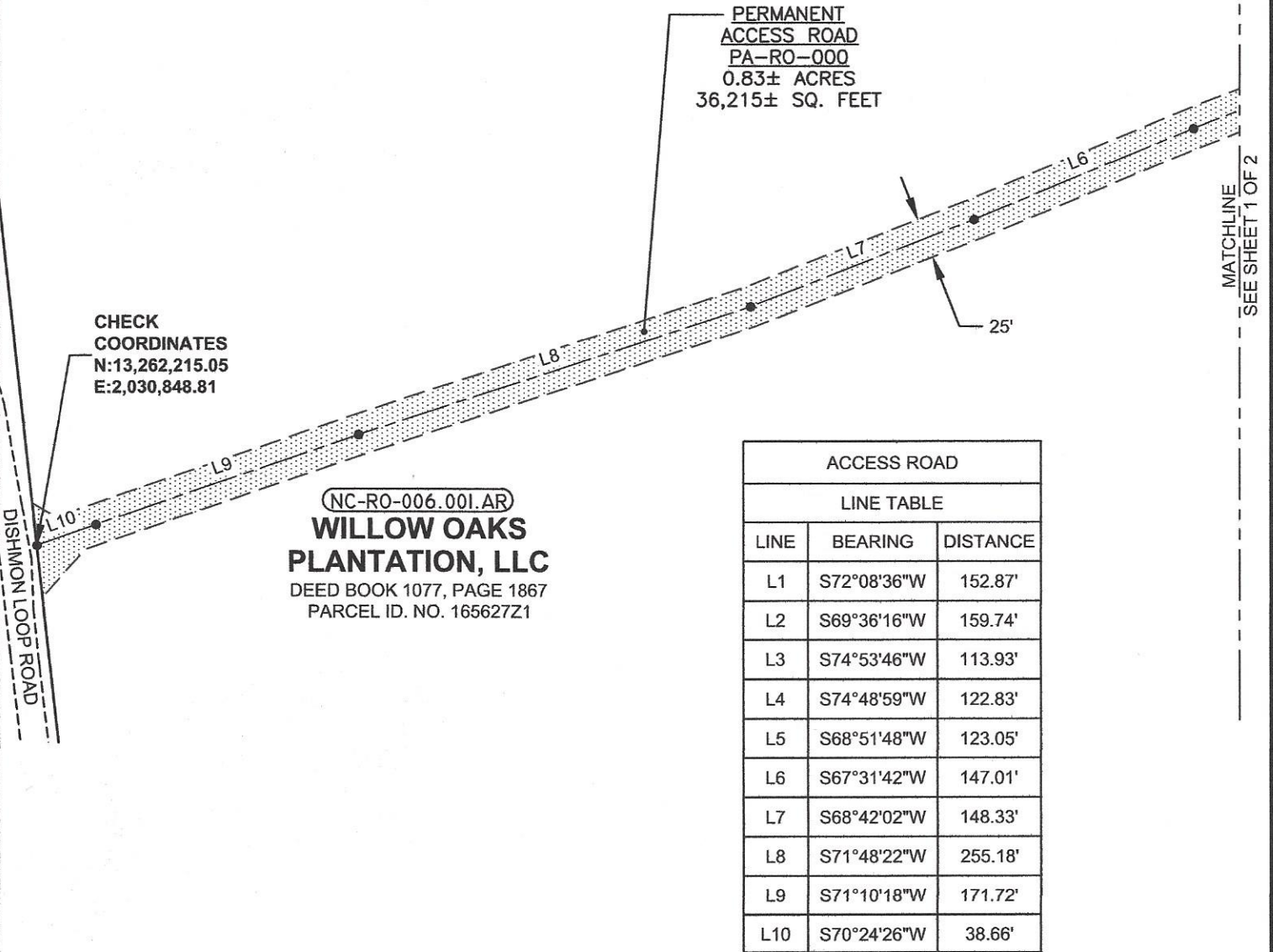
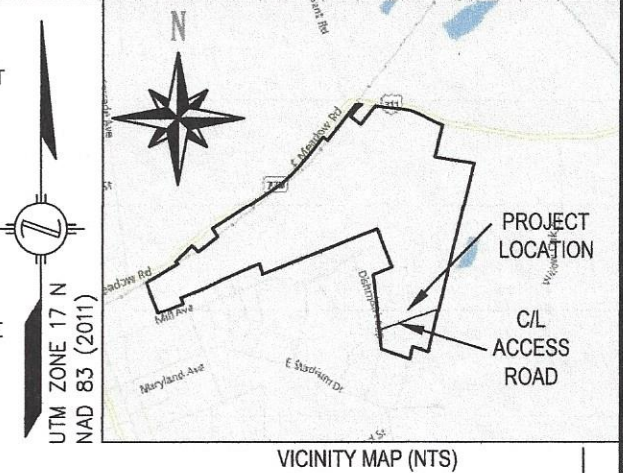


EASEMENT SURVEY FOR MVP SOUTHGATE TOWNSHIP OF LEAKSVILLE ROCKINGHAM COUNTY, NORTH CAROLINA				
PIPELINE EASEMENT IN PROPERTY OF WILLOW OAKS PLANTATION, LLC				
NC-RO-006.001.AR DEED BOOK 1077, PAGE 1867				
NC-RO-006.001.AR				
Drawn By: MSF	Chk'd By:	App'd By:	TRC Proj. No. 300423	Scale: 1"=100'
Drawn Date: 04/20/20	DD	TWK	Sheet 1 OF 2	MVP Proj. No.
100 50 0 100 GRAPHIC SCALE IN FEET				
REVISIONS				
No.	Date	Rev By	Description	Checked

NOTES

1. ALL DISTANCES SHOWN HEREON ARE HORIZONTAL GRID DISTANCES, A PROJECT SCALE FACTOR (PSF) OF 0.99979557 WAS ESTABLISHED FOR THIS PROJECT. TO OBTAIN GROUND DISTANCE, DIVIDE THE DISTANCE SHOWN BY THE PSF.
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9. THIS PLAT IS FOR EASEMENT ACQUISITION PURPOSES ONLY AND IS NOT TO BE CONSIDERED A BOUNDARY SURVEY OF THE PARENT TRACT.
10. TEMPORARY EASEMENT TO BE ACQUIRED.

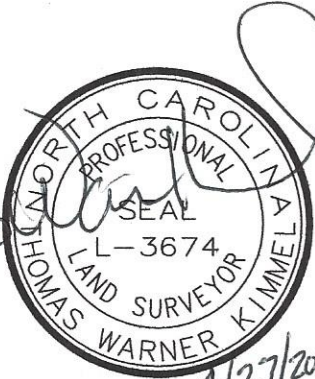
EXHIBIT A



ACCESS ROAD		
LINE TABLE		
LINE	BEARING	DISTANCE
L1	S72°08'36"W	152.87'
L2	S69°36'16"W	159.74'
L3	S74°53'46"W	113.93'
L4	S74°48'59"W	122.83'
L5	S68°51'48"W	123.05'
L6	S67°31'42"W	147.01'
L7	S68°42'02"W	148.33'
L8	S71°48'22"W	255.18'
L9	S71°10'18"W	171.72'
L10	S70°24'26"W	38.66'

LEGEND

- NGS MONUMENT
- EXISTING IRON PIPE OR PIN
- IRON PIN SET
- COMPUTED POINT
- LINE NOT TO SCALE
- PERMANENT ACCESS ROAD
- TEMPORARY ACCESS ROAD
- PERMANENT EASEMENT
- TEMPORARY WORKSPACE
- ADDITIONAL TEMPORARY WORKSPACE (A.T.W.S.)
- POSSIBLE TEMPORARY WORKSPACE



LAND OWNER INITIALS: _____
DATE: _____

SEE SHEET 1 FOR THE LAND SURVEYOR'S CERTIFICATION.

EASEMENT SURVEY FOR MVP SOUTHGATE TOWNSHIP OF LEAKSVILLE ROCKINGHAM COUNTY, NORTH CAROLINA				
PIPELINE EASEMENT IN PROPERTY OF WILLOW OAKS PLANTATION, LLC				
NC-RO-006.001.AR DEED BOOK 1077, PAGE 1867				
NC-RO-006.001.AR				
Drawn By: MSF	Chk'd By:	App'd By:	IRC Proj. No. 300423	Scale: 1"=100'
Drawn Date: 04/20/20	DD	TWK	Sheet 2 OF 2	MVP Proj. No.
100 50 0 100 GRAPHIC SCALE IN FEET				
REVISIONS				
No.	Date	Rev By	Description	Checked